BCSALUT 2017

II Jornades de Biblioteques i Salut de Catalunya
Barcelona, 8 i 9 de juny

Una aproximació a la ciència oberta des de l'àmbit de la salut

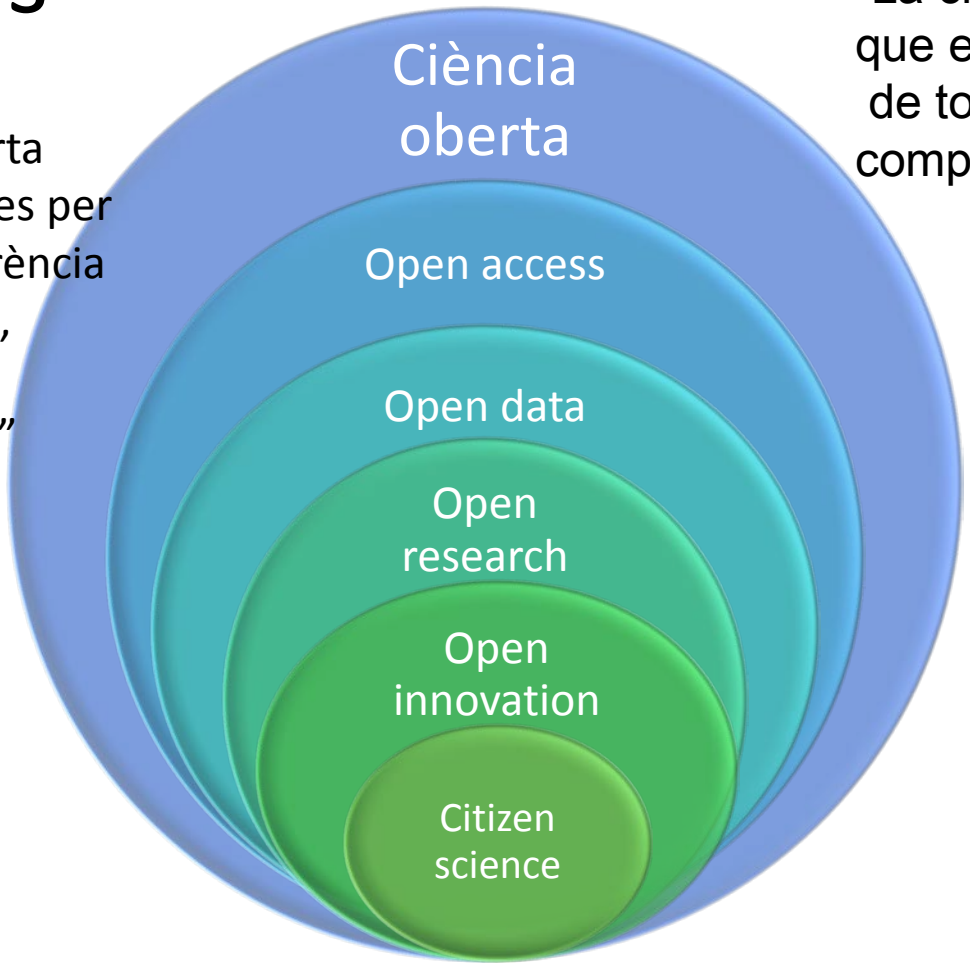
Remedios Melero (IATA –CSIC)
Membre del grup Acceso Abierto a la Ciencia i Maredata
Partner del projecte FOSTER plus
rmelero@iata.csic.es


“La informació em persegueix”

Ciència oberta un envoltant de "opens"

"La ciència oberta és la idea que el coneixement científic de tot tipus ha de ser compartit obertament"

"La ciència oberta proporciona eines per facilitar transparència reproductibilitat, disseminació de coneixement"



"Col.laboració, reutilització, lliure distribució i la reproducció de la investigació"

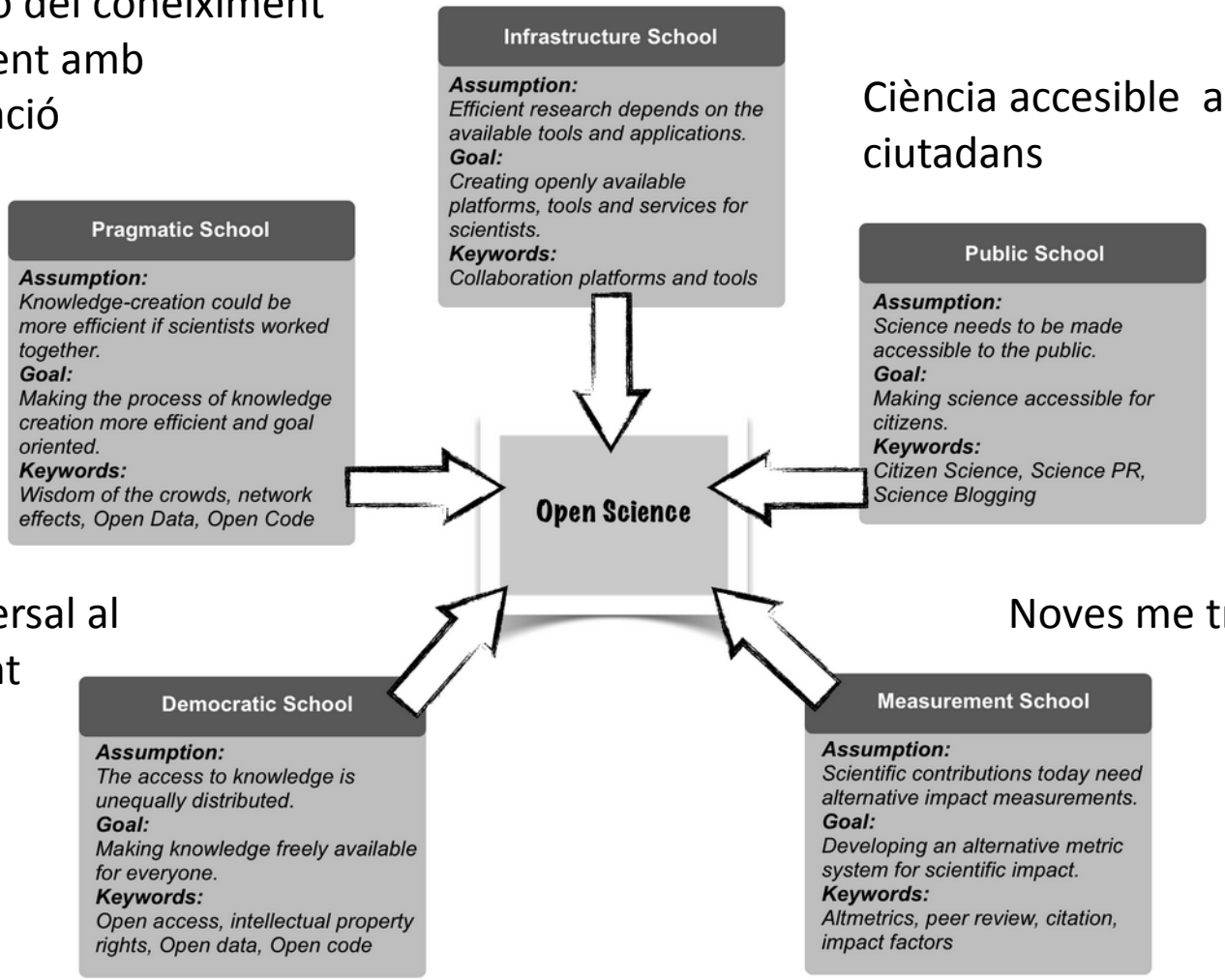
Open Science: One Term, Five Schools of Thought. Benedikt Fecher & Sascha Friesike
http://book.openingscience.org/basics_background/open_science_one_term_five_schools_of_thought.html

Tecnologia

"Digestió d'altres fonts"

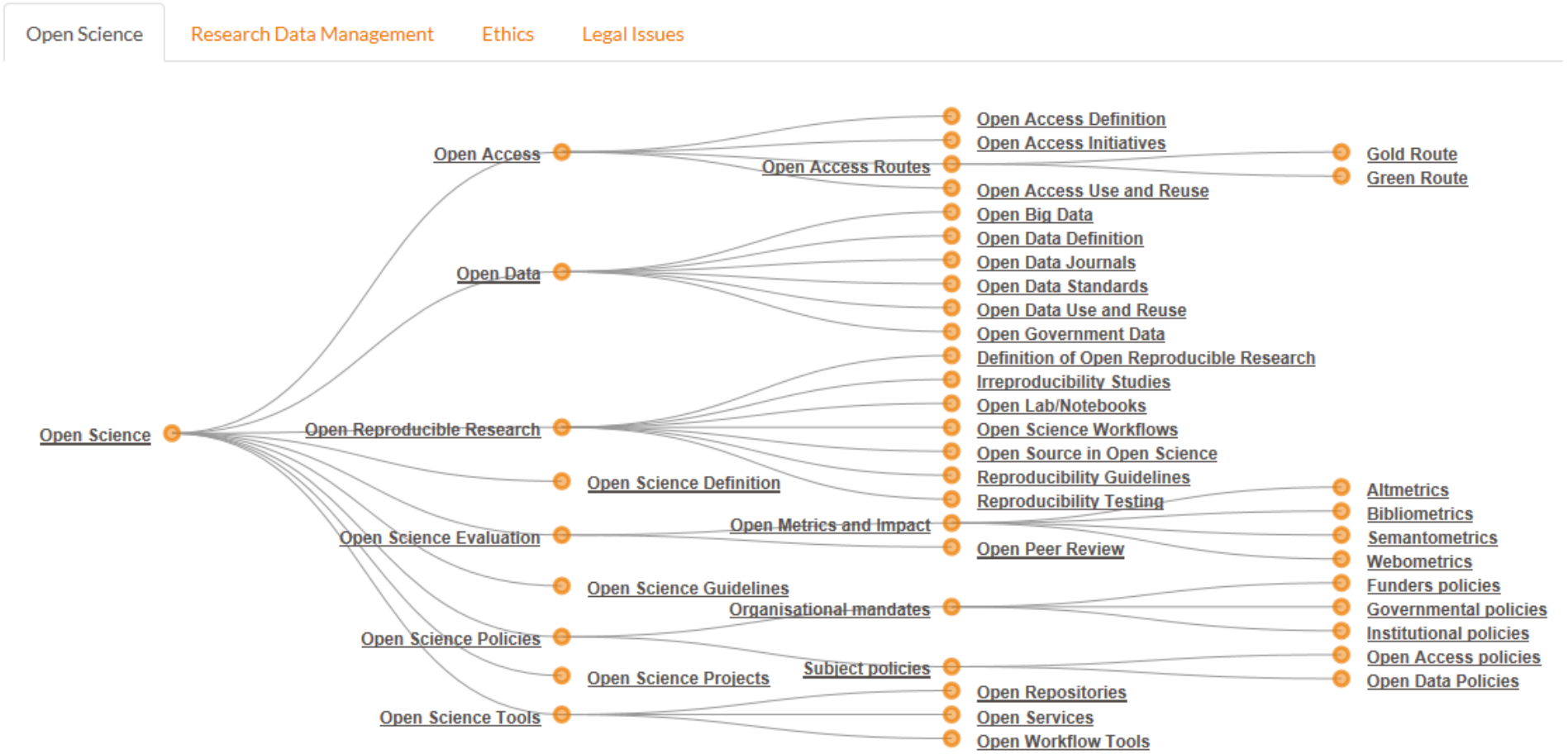
Generació del coneiximent mes eficient amb col.laboració

Ciència accesible als ciutadans

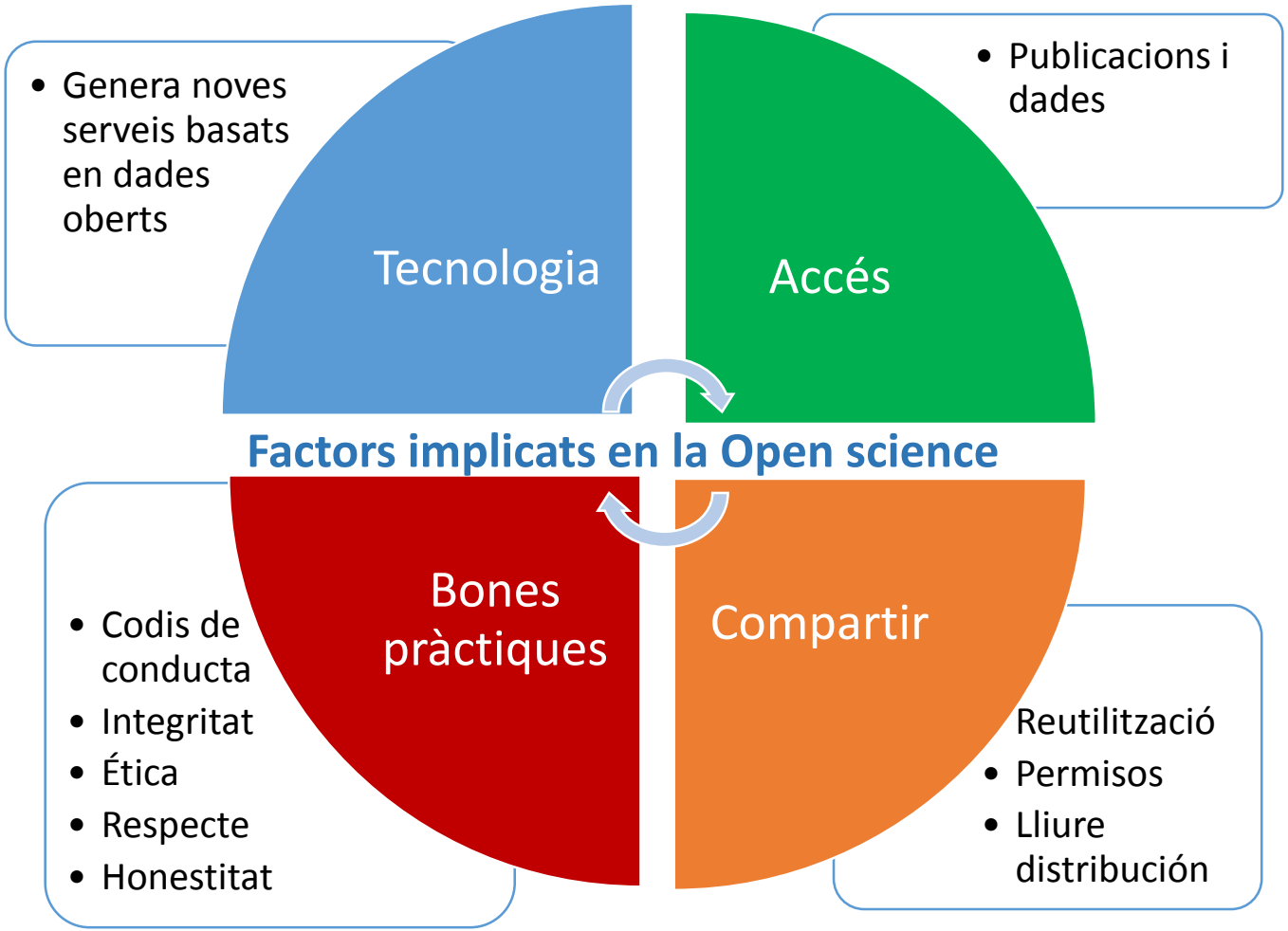


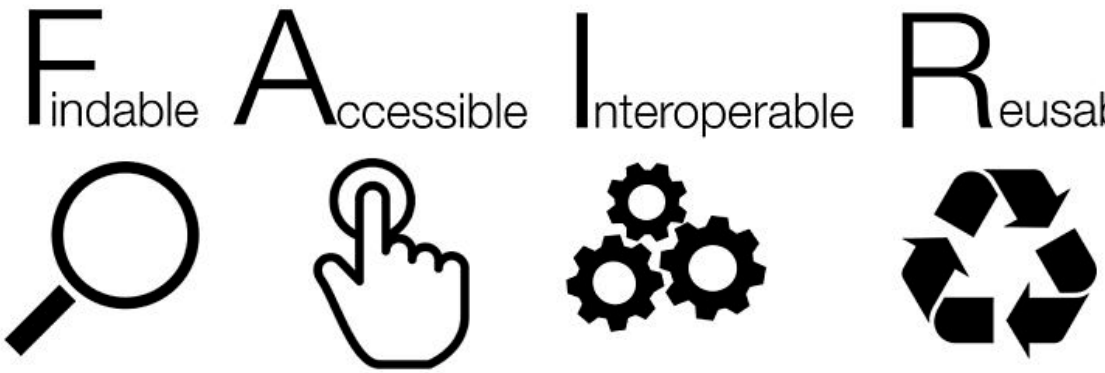
Acces universal al coneiximent

Noves me triques



https://www.fosteropenscience.eu/





Principis FAIR

https://www.force11.org/group/fairgroup/fairprinciples

McKiernan, E. C., Bourne, P. E., Brown, C. T., Buck, S., Kenall, A., Lin, J., … Yarkoni, T. (2016). How open science helps researchers succeed. *eLife*, *5*, e16800. http://doi.org/10.7554/eLife.16800

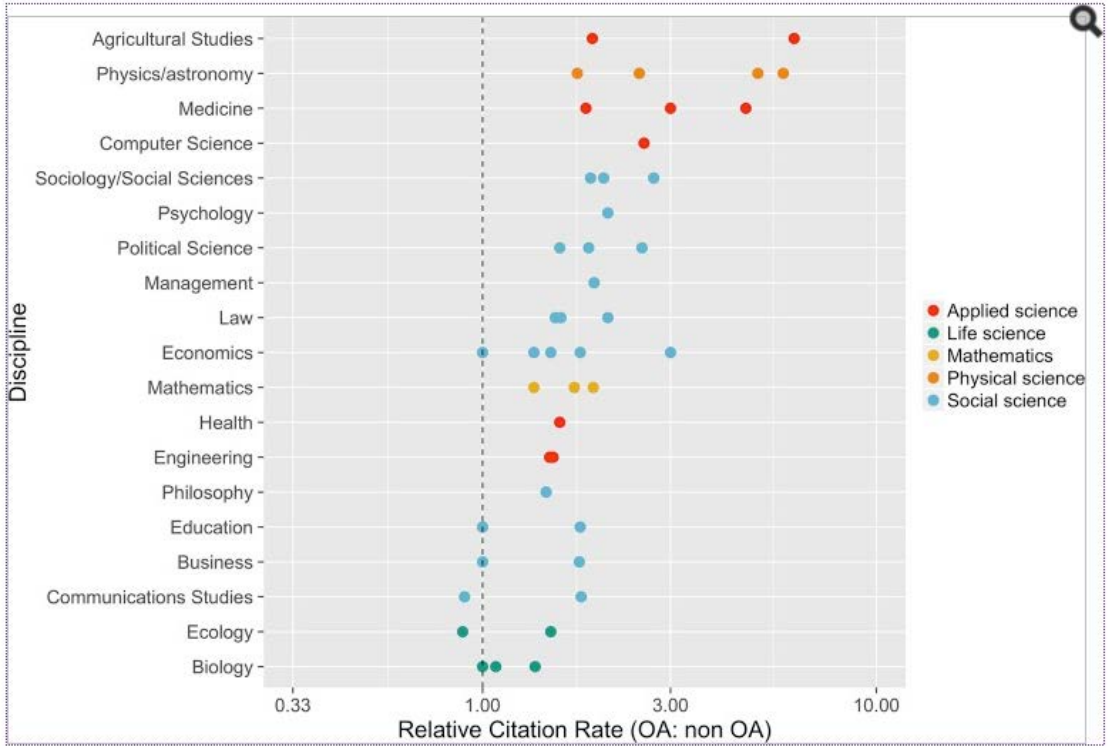
Per a qué, per qué?

Publishing
- Open publications get more citations
- Open publications get more media coverage
- Prestige and journal impact factor
- Rigorous and transparent peer review
- Publish where you want and archive openly
- Retain author rights and control reuse with open licenses
- Publish for low-cost or no-cost

Funding
- Awards and special funding
- Funder mandates on article and data sharing
- Resource management and sharing
- Awards and special funding
- Funder mandates on article and data sharing

Resource management and sharing
- Documentation and reproducibility benefits
- Gain more citations and visibility by sharing data

Career advancement
- Find new projects and collaborators
- Institutional support of open research practices



Open access articles get more citations.

OpenDOAR

DOAJ
DIRECTORY OF
OPEN ACCESS
JOURNALS

oadoi

DataCite

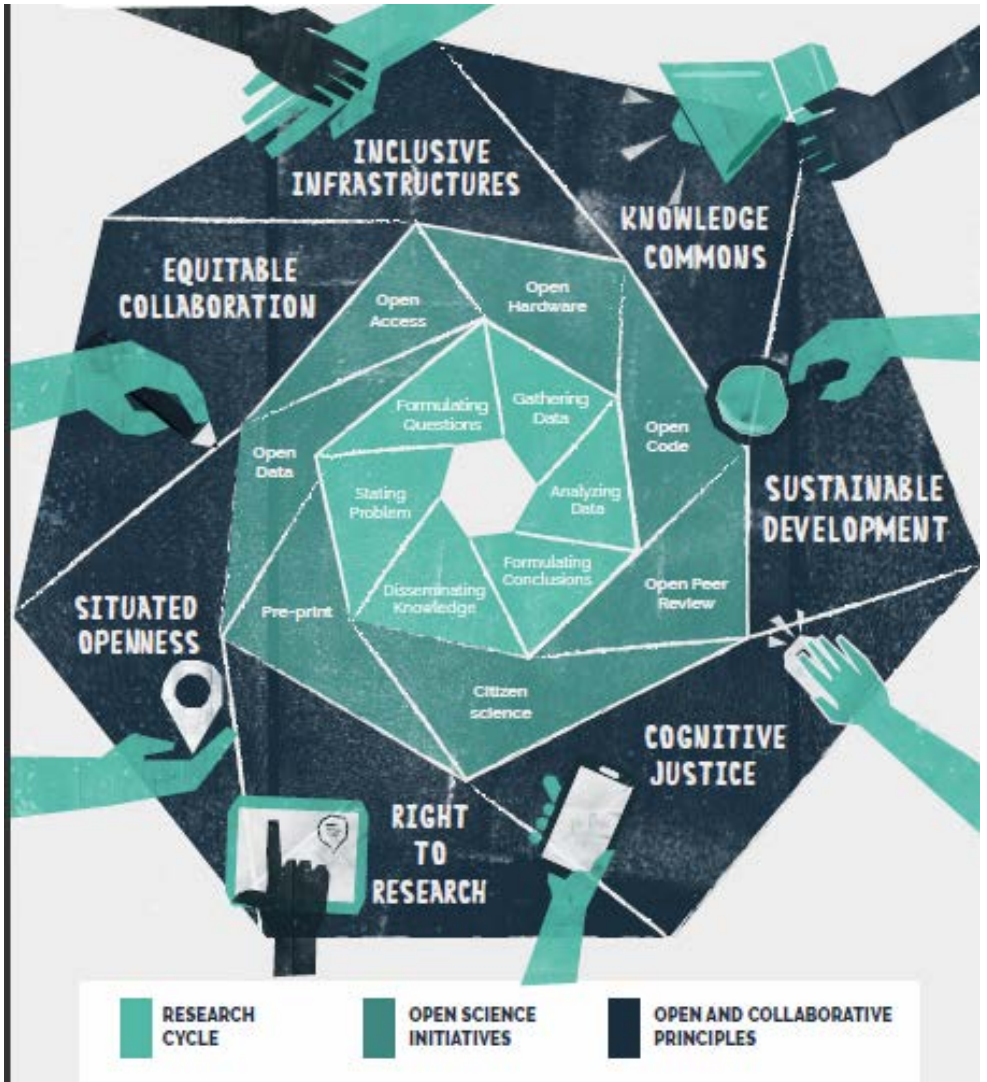
Acceso Abierto

SHERPA/RoMEO

https://ocsdnet.org/manifesto/open-science-manifesto/

La Red de Ciencia Abierta y Colaborativa para el Desarrollo (OCSDNet) se compone de doce equipos de investigación del Sur Global interesados en entender el rol de la apertura y colaboración en la Ciencia como una herramienta transformadora del pensamiento y practica del desarrollo.

There is no singular "right way" to do open science, and the process will always differ by context. We offer these seven principles as a foundation upon which to deliberate and realise a more inclusive notion of science in development.



Politiques….
El cas europeu vs open science

Council of the European Union

Brussels, 27 May 2016
(OR. en)

9526/16

RECH 208
TELECOM 100

OUTCOME OF PROCEEDINGS

From:	General Secretariat of the Council
To:	Delegations
No. prev. doc.:	8791/16 RECH 133 TELECOM 74
Subject:	The transition towards an Open Science system - Council conclusions (adopted on 27/05/2016)

Science ministers from European Union nations AGREED last month to **make publicly funded research publications freely available by 2020.** Each country will implement its own publication policy.

The Council:

UNDERLINES the principle for the optimal reuse of research data should be: "**as open as possible, as closed as necessary**".

EMPHASIZED that the opportunities for the optimal reuse of research data can only be realised if data are consistent with the FAIR principles (findable, accessible, interoperable and re-usable) within a secure and trustworthy environment

http://data.consilium.europa.eu/doc/document/ST-9526-2016-INIT/en/pdf

European Commission

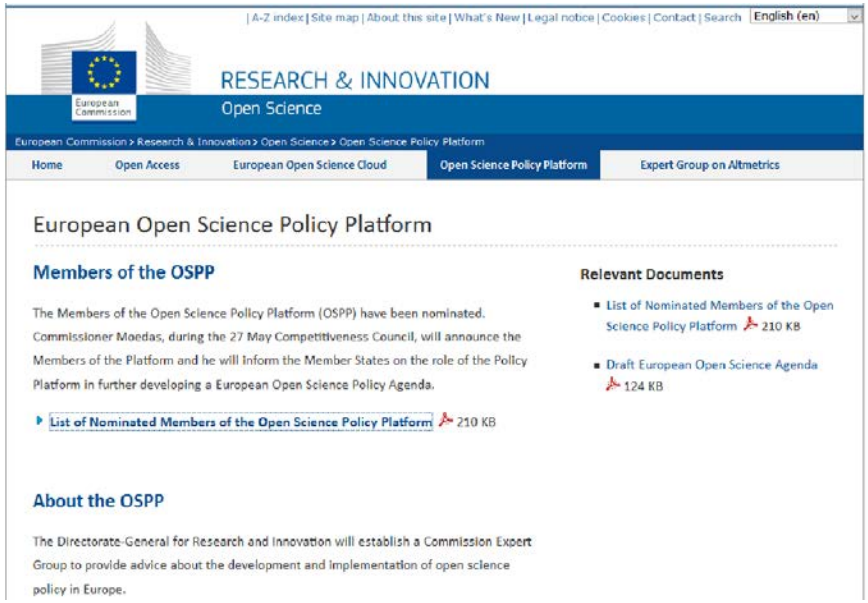
DIRECTORATE-GENERAL FOR RESEARCH AND INNOVATION (RTD)

Draft European Open Science Agenda. 26 February 2016

Based on 5 policy actions:

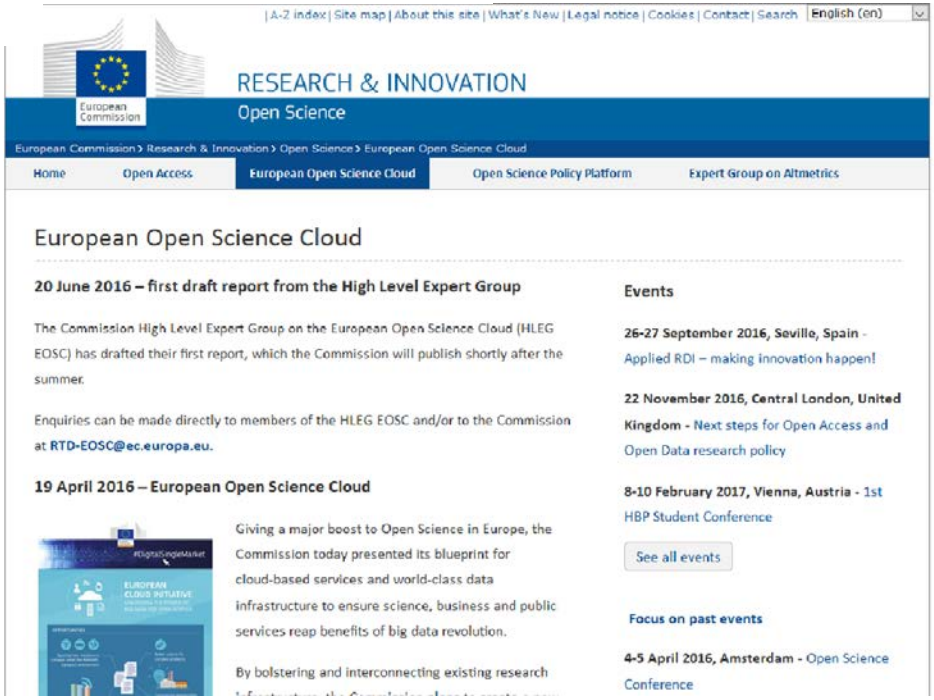
- Foster Open Science
- Remove barriers to Open Science
- Develop research infrastructures for Open Science
- Mainstream Open Access to research results
- Embed Open Science in Society

https://ec.europa.eu/research/openscience/pdf/draft_european_open_science_agenda.pdf

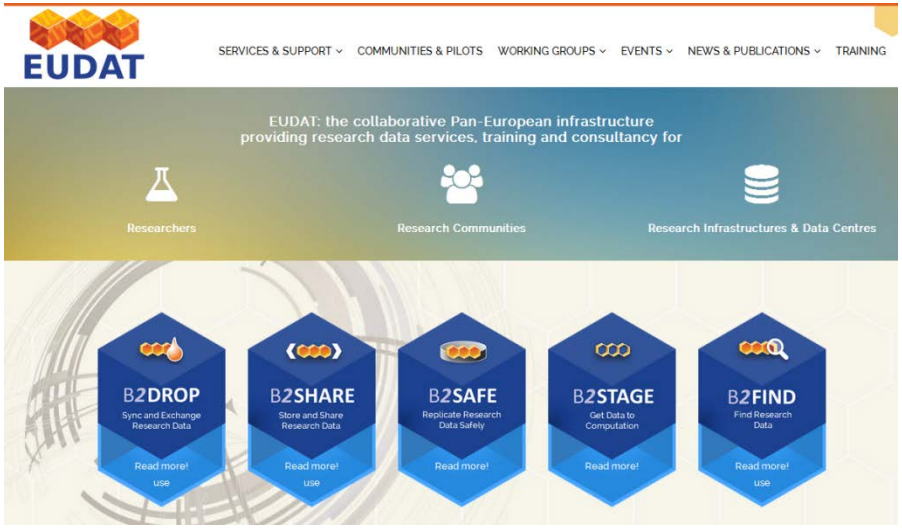


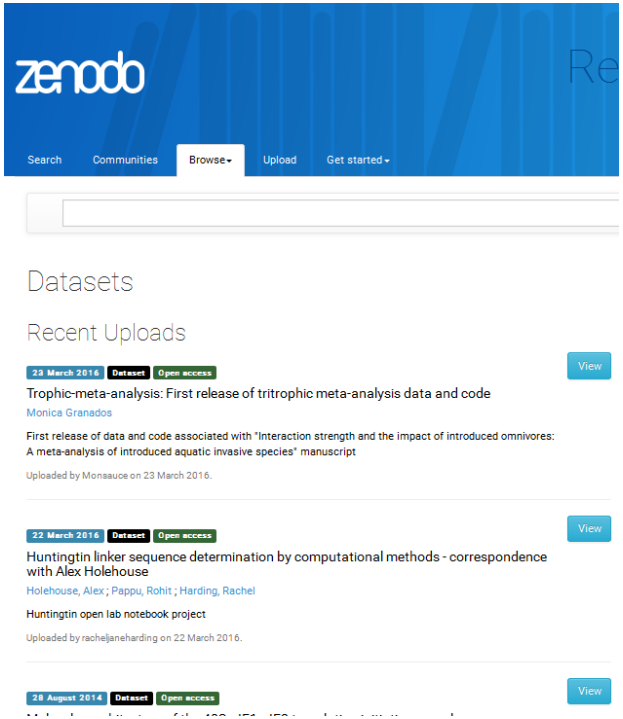
Guidelines on Open Access
to Scientific Publications and Research Data
in Horizon 2020

Version 1.0
11 December 2013

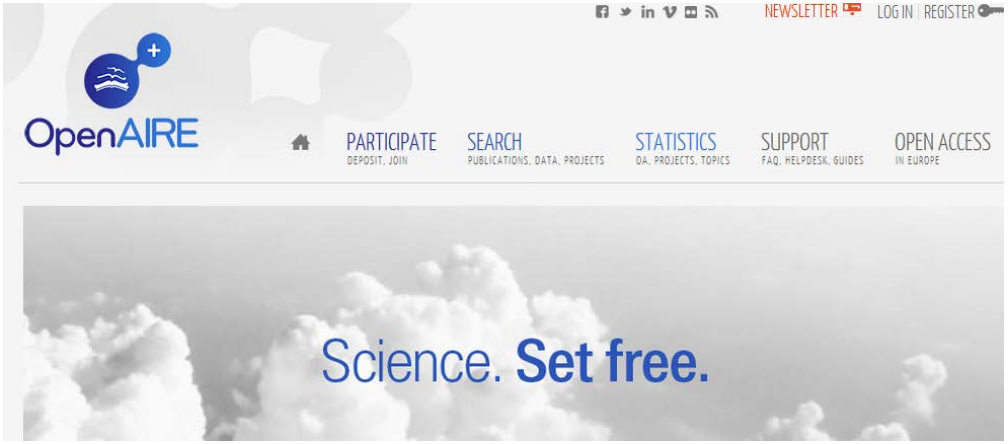


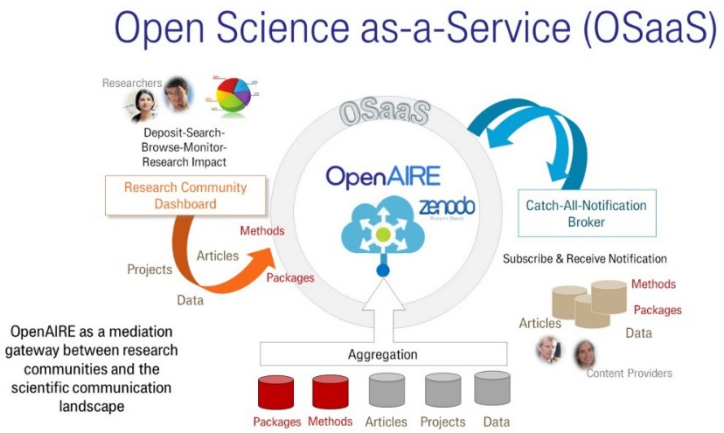
Servicios de apoyo a los investigadores ….



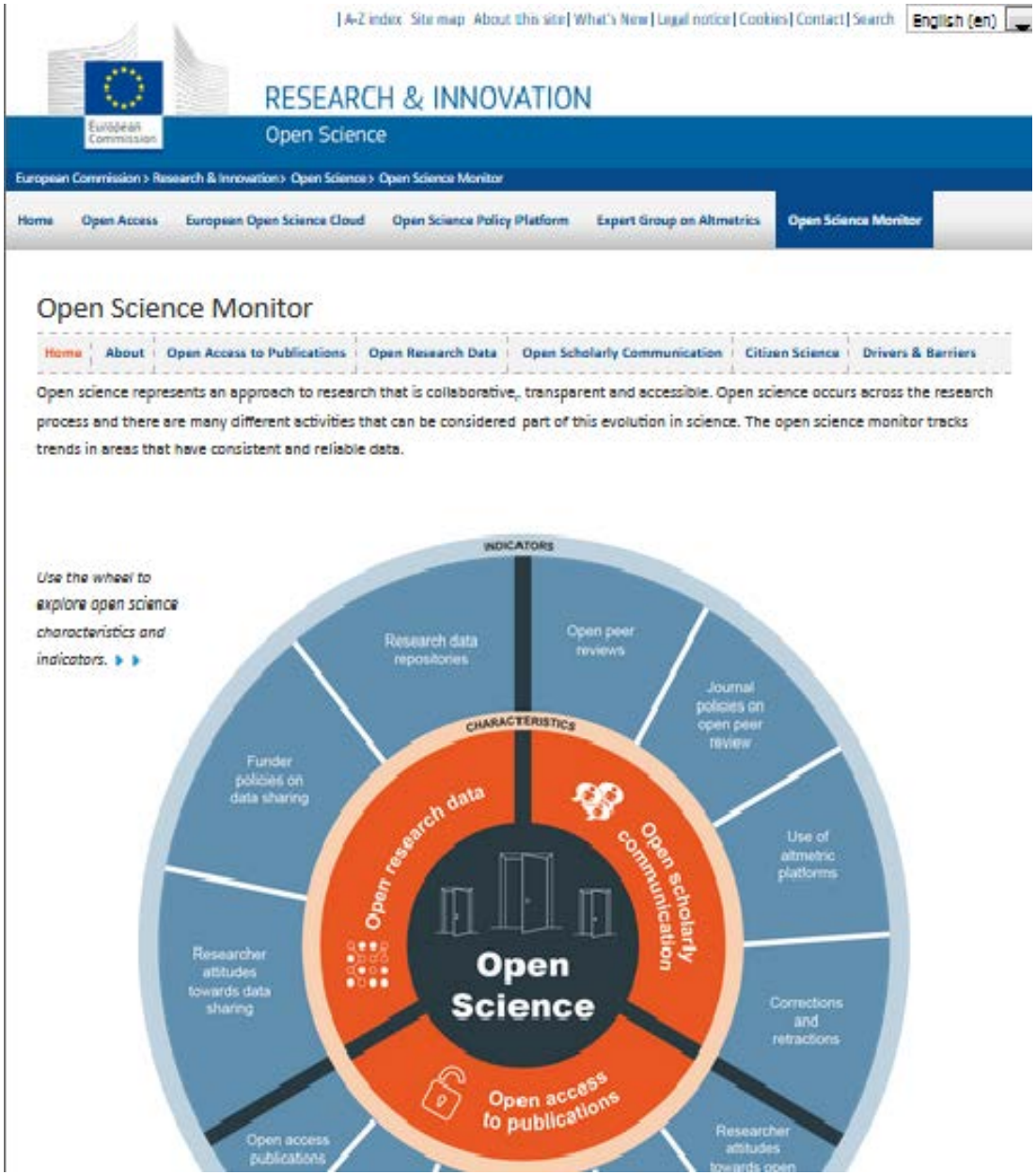


OpenAIRE-Connect





http://ec.europa.eu/research/openscience/index.cfm?pg=home&section=monitor



“The European Open Science Cloud is a supporting environment for Open science and not an ‘open cloud’ for science”

EUDAT

Home

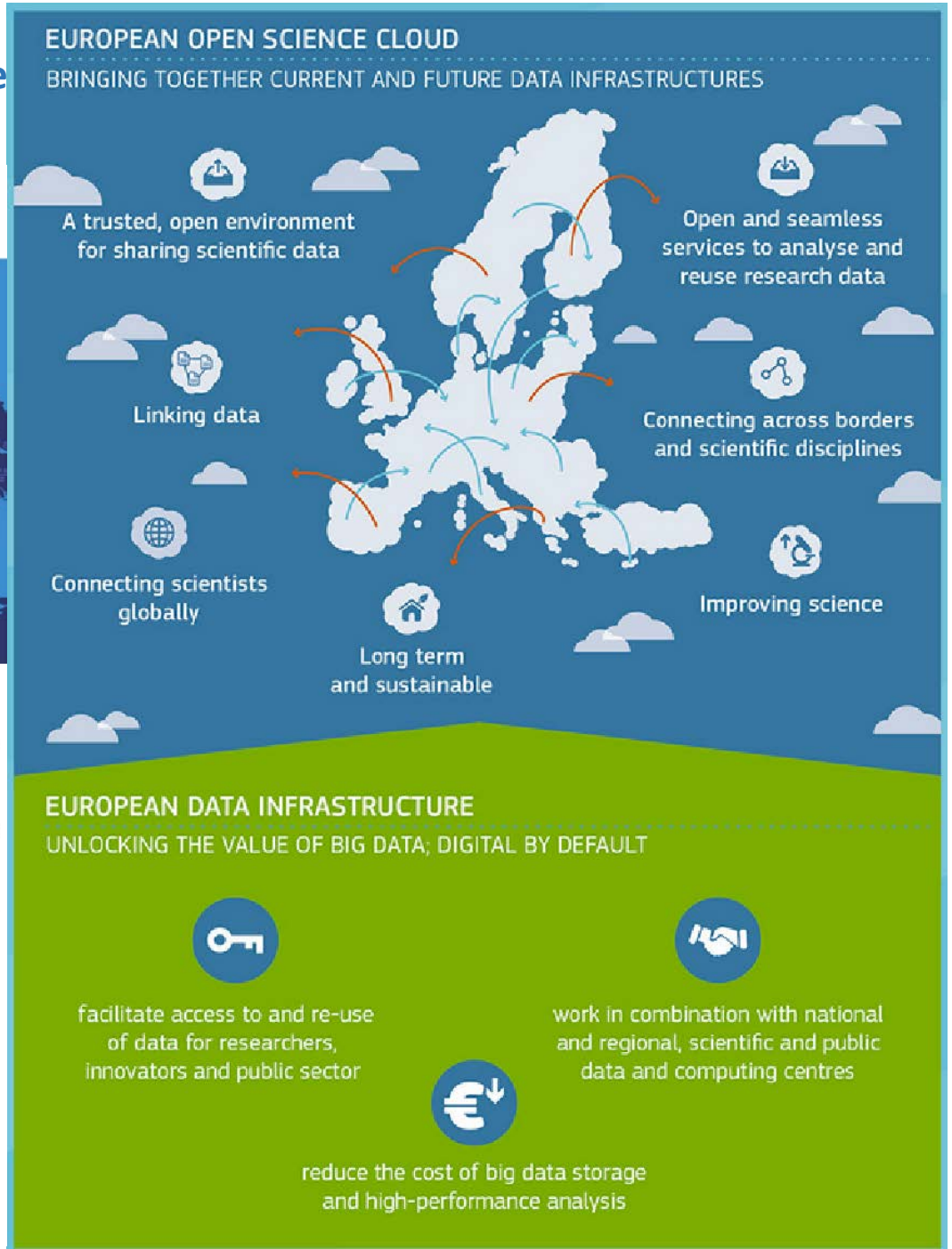
A landmark agreement sustaining the pan European Collaborative Data Infrastructure for the next 10 years

3rd October 2016

***16 major European research organisations, data and computing centres** signed an agreement to sustain the EUDAT – pan European collaborative data infrastructure for the next 10 years. The organisations stand together behind a long term sustainability plan and commit to develop, maintain and deploy pan-European research data services and to promote harmonization of research data management practices across centres.*

What does this mean?

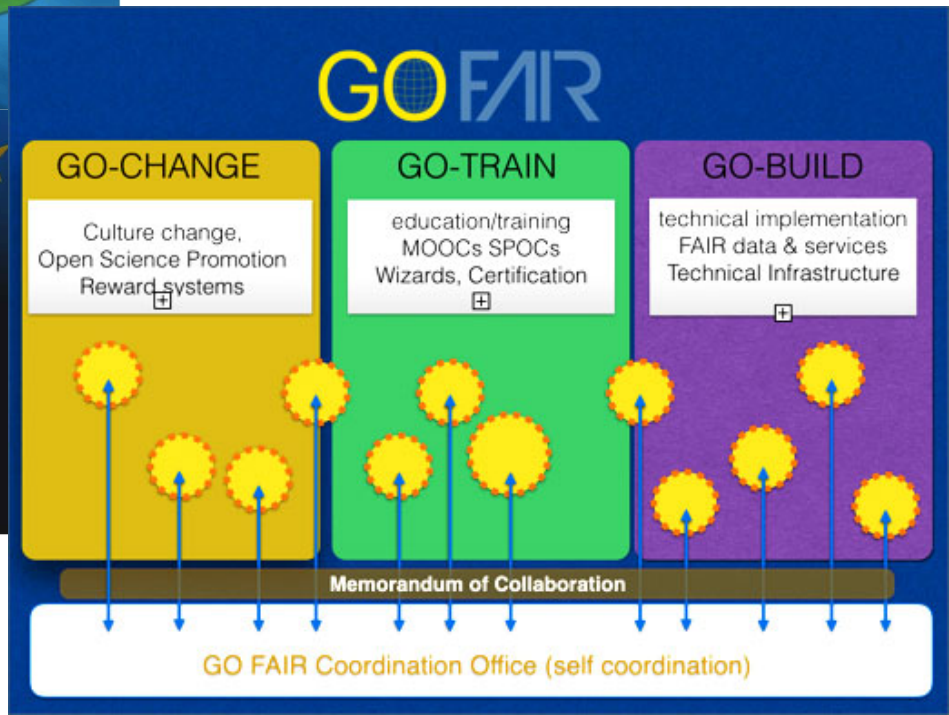
Service providers, both generic and thematic, and research communities have joined forces as part of a common framework for developing an interoperable layer of common data services. Known as the EUDAT Collaborative Data Infrastructure (CDI), this is essentially **a European e-infrastructure of integrated data services and resources** to support research. This infrastructure and its services have been developed in close collaboration with **over 50 research communities** spanning across many different scientific disciplines and involved at all stage of the design process. The establishment of the EUDAT CDI is timely with the imminent realization of the European Open Science Cloud[1] which aims to offer open and seamless services for storage, management, analysis and re-use of research data, across borders and scientific disciplines.



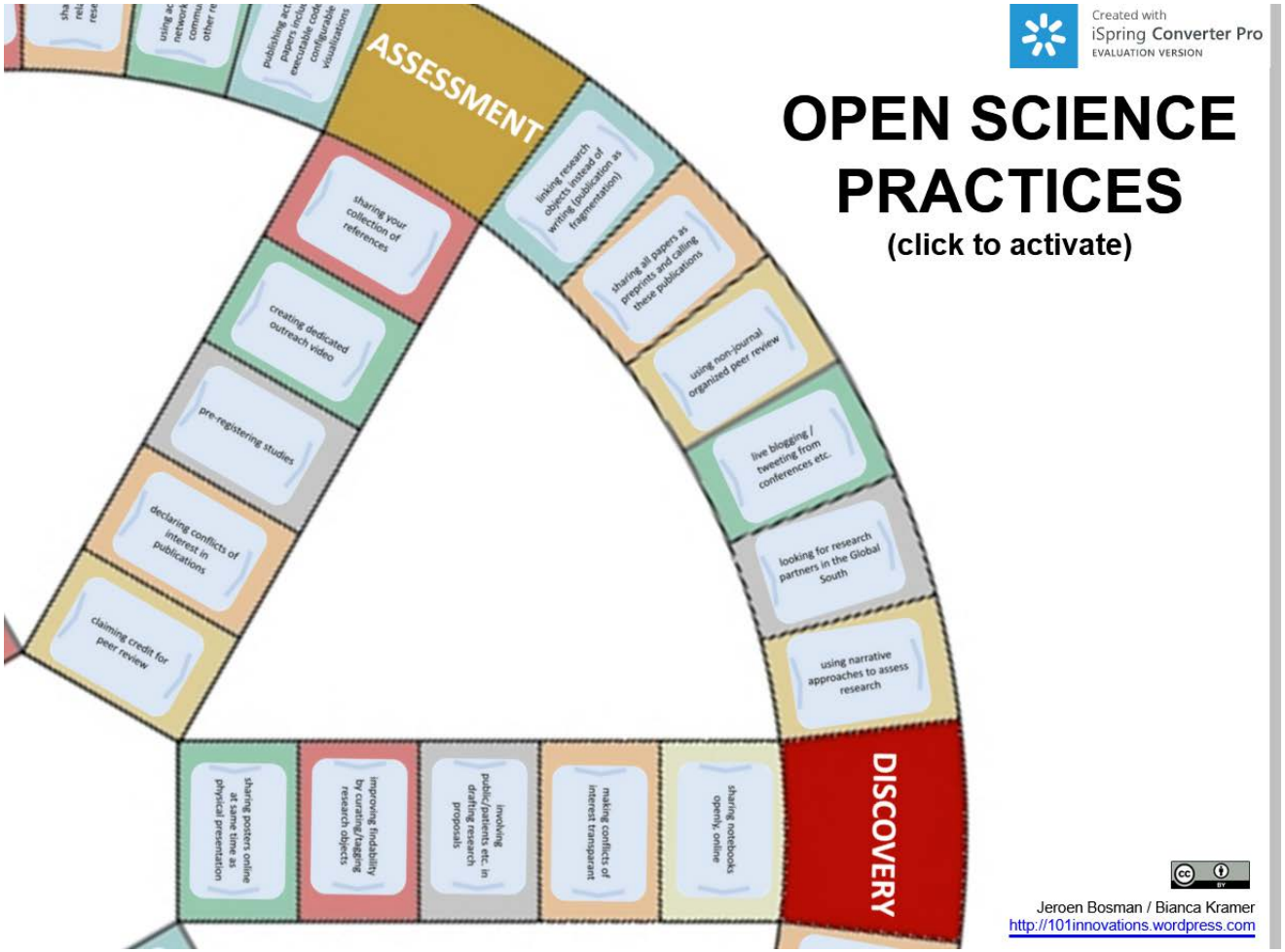
"GO-FAIR" is a proposal for the practical implementation of the European Open Science Cloud (EOSC) through a federated approach making optimal use of existing initiatives and infrastructures in the participating Member States

GO-FAIR: A Member States-Up strategy for the EOSC implementation

"GO-FAIR" is a proposal for the practical implementation of the European Open Science Cloud (EOSC) through a federated approach making optimal use of existing initiatives and infrastructures in the participating Member States.



Altres iniciatives….



https://bmkramer.databox.me/Public/Wheel_of_Open_Science/

Participate in Open Science

COS collaborates with and produces tools for scientists, journals and societies, and developers. Below, explore ways to u our free services or collaborate on promoting open science.

- Ambassadors
- Scientists
- Journals and Societies
- Developers

Take Steps Towards Transparency

COS offers researchers tools and services to make your research better, more efficient, and more reproducible.

1. Use The Open Science Framework (OSF)

OSF is a free, secure web application for project management, collaboration, registration, and archiving. Stop losing files, improve collaboration, and integrate OSF projects with the tools you use (e.g., Dropbox, GitHub, Figshare, Dataverse). Learn more.

Sign up for the OSF

2. Conduct Reproducible Analyses

COS offers free statistical consulting to improve reproducible practices. Get email help on power analysis and calculating confidence intervals, individualized hangouts for learning R and GitHub, or schedule a group to be trained on OSF. Read more.

Request a consultation

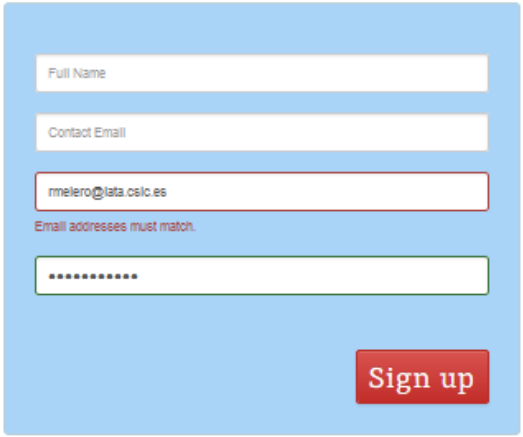
3. Pre-register your studies

http://centerforopenscience.org/involved_participate/#tab_2

Open Science Framework https://osf.io/

Project management with collaborators, project sharing with the public

The Open Science Framework (OSF) supports the entire research lifecycle: planning, execution, reporting, archiving, and discovery.



What can the OSF do for you?

Provide features to increase the efficiency and effectiveness of your research

CONNECTIONS

with the services you already use

Link services to simplify transitions and facilitate interactions; e.g., connect OSF to your Dropbox, GitHub, and Amazon S3 repositories and all four work together!

ARCHIVING

and managing collaborations

Spend more time doing your research and less time keeping track of it. No more lost data from crashed drives, disappearing collaborators, or failing memories.

CONTROL

over private and public workflows

Work privately among collaborators and, when you wish, make some or all of your research materials public for others to use and cite.

Open science

Your guide to Open Access publishing and Open Science

Search

FUNDING OPEN ACCESS | RESEARCH PROMOTION | OPEN ACCESS IN HUMANITIES

TAG ARCHIVES: FUNDING

February 13, 2015

O & A on Open Access funding

All stories were created by Agata Morka, Product Manager of Open Access Books...

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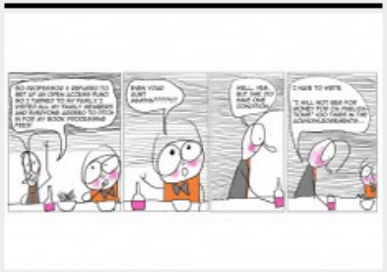
Starting from January 1, 2015 all new funding agreements with the Bill and...

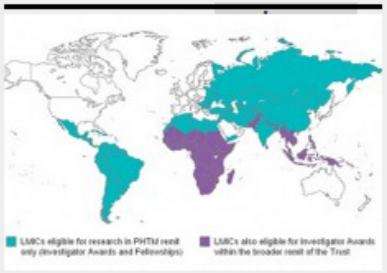
August 7, 2014

Agata Morka on Open Access Book publishing and Emerging Scholar Monograph Competition

Today I would like to present an interview with Dr. Agata Morka, Product...

read more →





http://openscience.com/tag/funding/

101 Innovations in Scholarly Communication

innoscholcomm.silk.co


Jeroen Bosman @jeroenbosman
Utrecht University Library

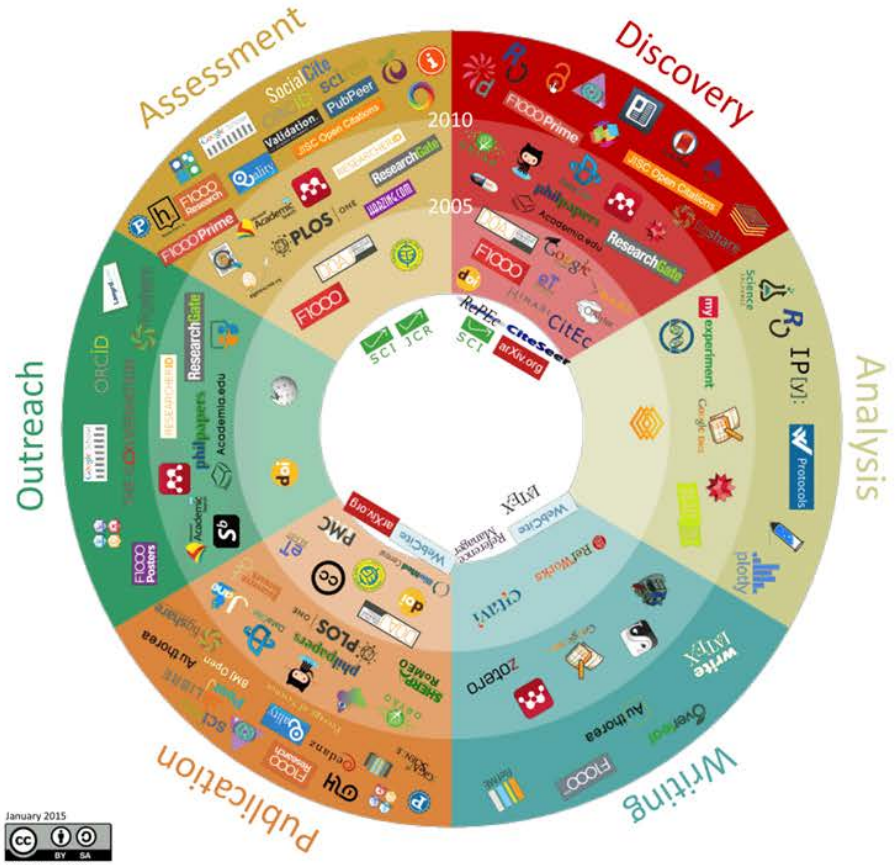
The Changing Research Workflow


Bianca Kramer @MsPhelps
Utrecht University Library

Science is in transition. This poster gives an impression of the exploratory phase of a project aiming to chart innovation in scholarly information and communication flows from evolutionary and network perspectives.

We intend to address the questions of what drives innovation and how these innovations change research workflows and may contribute to more **open, efficient** and **good** science.

101 Innovative tools and sites in 6 research workflow phases (< 2000 - 2015)



Most important developments in 6 research workflow phases

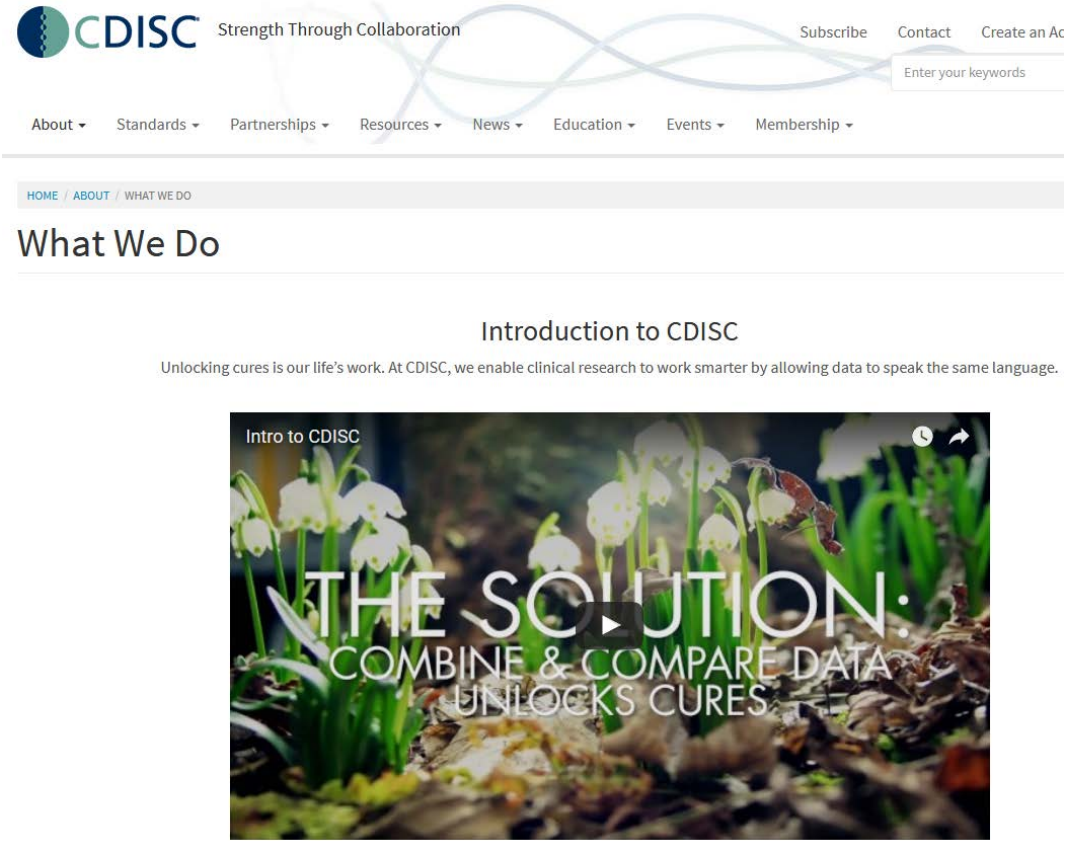
	Discovery	Analysis	Writing	Publication	Outreach	Assessment
Trends	social discovery tools	datadriven & crowdsourced science	collaborative online writing	Open Access & data publication	scholarly social media	article level (alt)metrics
Expectations	growing importance of data discovery	more online analysis tools	more integration with publication & assessment tools	more use of "publish first, judge later"	use of altmetrics for monitoring outreach	more open and post-publication peer review
Uncertainties	support for full-text search and text mining	willingness to share in analysis phase	acceptance of collaborative online writing	effect of journal/publisher status	requirements of funders & institutions	who pays for costly qualitative assessment?
Opportunities	discovery based on aggregated OA full text	open labnotes	semantic tagging while writing/citing	reader-side paper formatting	using repositories for institutional visibility	using author-, publication- and affiliation-IDs
Challenges	real semantic search (concepts & relations)	reproducibility	safety/privacy of online writing	globalization of publishing/access standards	making outreach a two-way discussion	quality of measuring tools
Most important long-term development	multidisciplinary + citation-enhanced databases	collaboration + data-driven	online writing platforms	Open Access	more & better connected researcher profiles	importance of societal relevance + non-publication contributions
Potentially most disruptive development	semantic/concept search + contextual/social recommendations	open science	collaborative writing + integration with publishing	circumventing traditional publishers	public access to research findings, also for agenda setting	moving away from simple quantitative indicators

Typical workflow examples

https://101innovations.wordpress.com/
https://s3-eu-west-1.amazonaws.com/pfigshare-u-previews/1863601/page_1_width_2000.png

https://www.cdisc.org/about/what-we-do

La importància dels estàndards en la interoperabilitat i el anàlisi de dades



Clinical Data Interchange Standards Consortium

OPEN KNOWLEDGE MAPS
A visual interface to the world's scientific knowledge

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https://openknowledgemaps.org/index.php

beta version

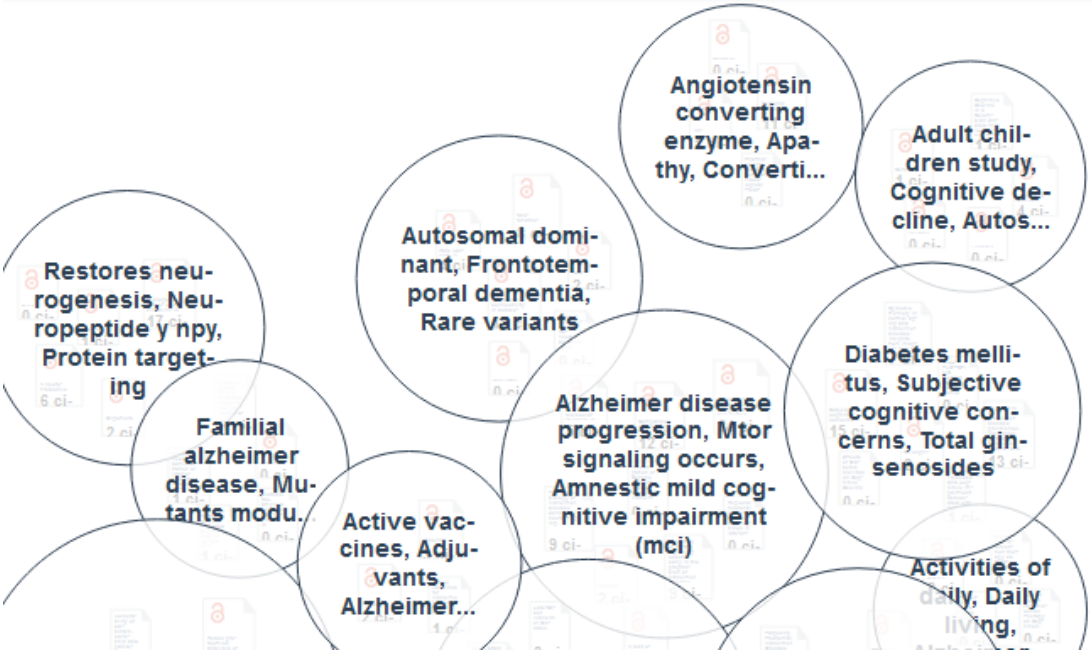
Visualize a research topic

Choose a library:

- PubMed (biomedicine)
- BASE (all disciplines)

OPEN KNOWLEDGE MAPS
A visual interface to the world's scientific knowledge

Search About Team News Get in touch Newsletter



Mitochondrial defects and oxidative stress in Alzheimer disease and Parkinson disease.
Michael H Yan, Xinglong Wang, Xiongwei Zhu in *Free radical biology & medicine* **(2013)**

Alzheimer disease (AD) and Parkinson disease (PD) are the two most common age-related neurodegenerative diseases characterized by prominent neurodegeneration in selective neural systems. Although a small fraction of AD and PD cases exhibit evidence o...

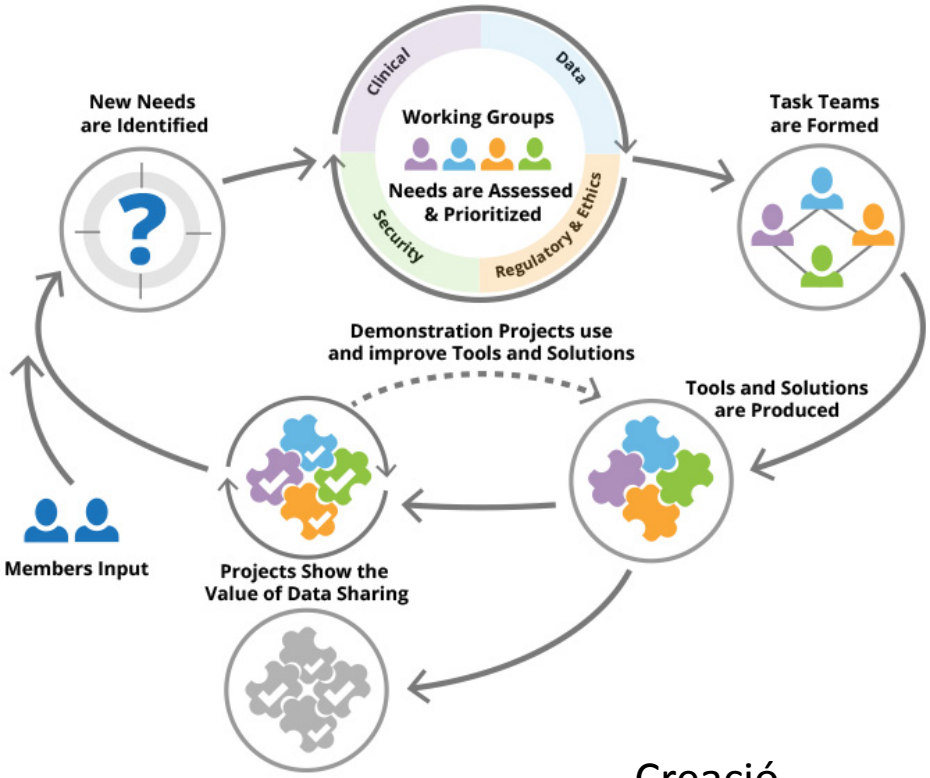
Area: Mitochondrial dna, Apoe4, Free radicals

Variants in the ATP-binding cassette transporter (ABCA7), apolipoprotein E ϵ4,and the risk of late-onset Alzheimer disease in African Americans.
Christiane Reitz, Gyungah Jun, Adam Naj, Ruchita Rajbhandary, Badri Narayan Vardarajan, Li-San Wang, Otto Valladares, Chiao-Feng Lin, Eric B Larson, Neill R Graff-Radford, Denis Evans, Philip L De Jager, Paul K Crane, Joseph D Buxbaum, Jill R Murrell, Towfique Raj, Nilufer Ertekin-Taner, Mark Logue, Clinton T Baldwin, Robert C Green, Lisa L Barnes, Laura B Cantwell, M Daniele Fallin, Rodney C P Go, Patrick Griffith, Thomas O Obisesan, Jennifer J Manly, Kathryn L Lunetta, M Ilyas Kamboh, Oscar L Lopez, David A Bennett, Hugh Hendrie, Kathleen S Hall, Alison M Goate, Goldie S Byrd, Walter A Kukull,

http://genomicsandhealth.org/

Global Alliance
for Genomics & Health

ABOUT GLOBAL ALLIANCE | WORKING GROUPS | PRODUCTS & PROJECTS | MEMBERSHIP | NEW



Our Work

The diverse members of the Global Alliance for Genomics and Health are working together to create interoperable approaches to catalyze projects that will help unlock the great potential of genomic data. Our four Working Groups advance Initiatives that develop key Work Products.

Clinical »
Aims to enable compatible, readily accessible, and scalable approaches for sharing clinical data and linking it with genomic data.

Data »
Concentrates on data representation, storage, and analysis of genomic data to develop approaches that facilitate interoperability.

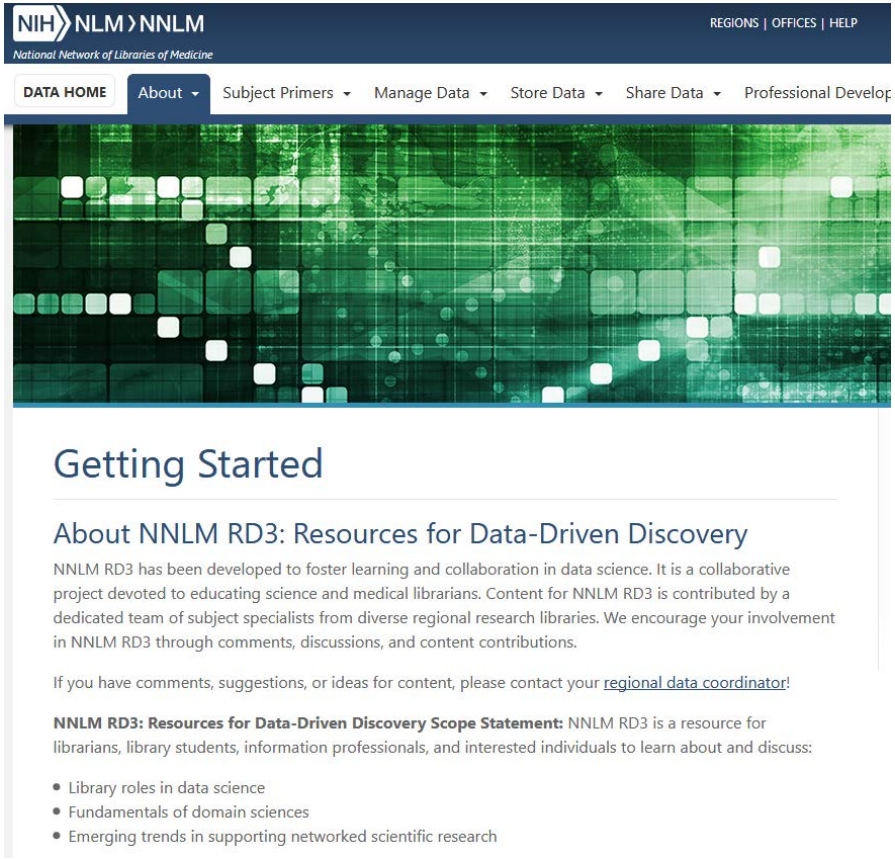
Regulatory and Ethics »
Focuses on ethics and the legal and social implications of the Global Alliance, including harmonizing policies and standards.

Security »
Leads the thinking on the technology aspects of data security, user access control, audit functions, and developing or adopting data security standards.

Creació

Necesitats

Recursos



Recursos per a la formació de biblioteques mediques

National Network of Libraries of Medicine (NNLM) is to advance the ***progress of medicine and improve the public health*** *by providing all U.S. health professionals with* ***equal access to biomedical information and improving the public's access to information*** *to enable them to make informed decisions about their* health.

Desenvolupament open source

Formació

Registre de casos clínicos un “open” molt important!

The NEW ENGLAND JOURNAL of MEDICINE

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EDITORIAL

Sharing Clinical Trial Data — A Proposal from the International Committee of Medical Journal Editors

Darren B. Taichman, M.D., Ph.D., Joyce Backus, M.S.L.S., Christopher Baethge, M.D., Howard Bauchner, M.D., Peter W. de Leeuw, M.D., Jeffrey M. Drazen, M.D., John Fletcher, M.B., B.Chir., M.P.H., Frank A. Frizelle, M.B., Ch.B., F.R.A.C.S., Trish Groves, M.B., B.S., M.R.C.Psych., Abraham Haileamlak, M.D., Astrid James, M.B., B.S., Christine Laine, M.D., M.P.H., Larry Peiperl, M.D., Anja Pinborg, M.D., Peush Sahni, M.B., B.S., M.S., Ph.D., and Sinan Wu, M.D.

N Engl J Med 2016; 374:384-386 | January 28, 2016 | DOI: 10.1056/NEJMe1515172

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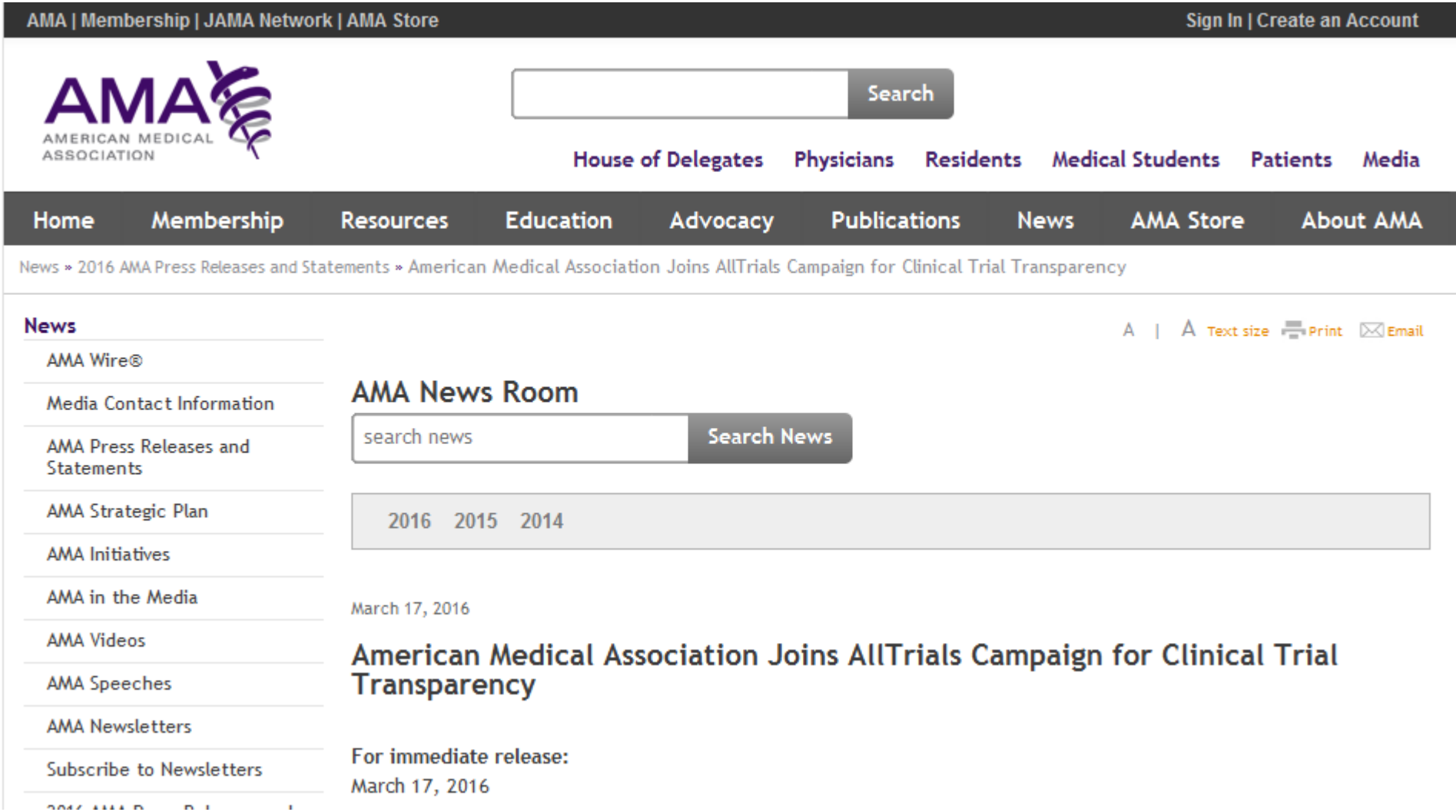
The International Committee of Medical Journal Editors (ICMJE) believes that there is an ethical obligation to responsibly share data generated by interventional clinical trials because participants have put themselves at risk. In a growing consensus, many funders around the world — foundations, government agencies, and industry — now mandate data sharing. Here we outline the ICMJE's proposed requirements to help meet this obligation. We encourage feedback on the proposed requirements. Anyone can provide feedback at www.icmje.org by 18 April 2016.

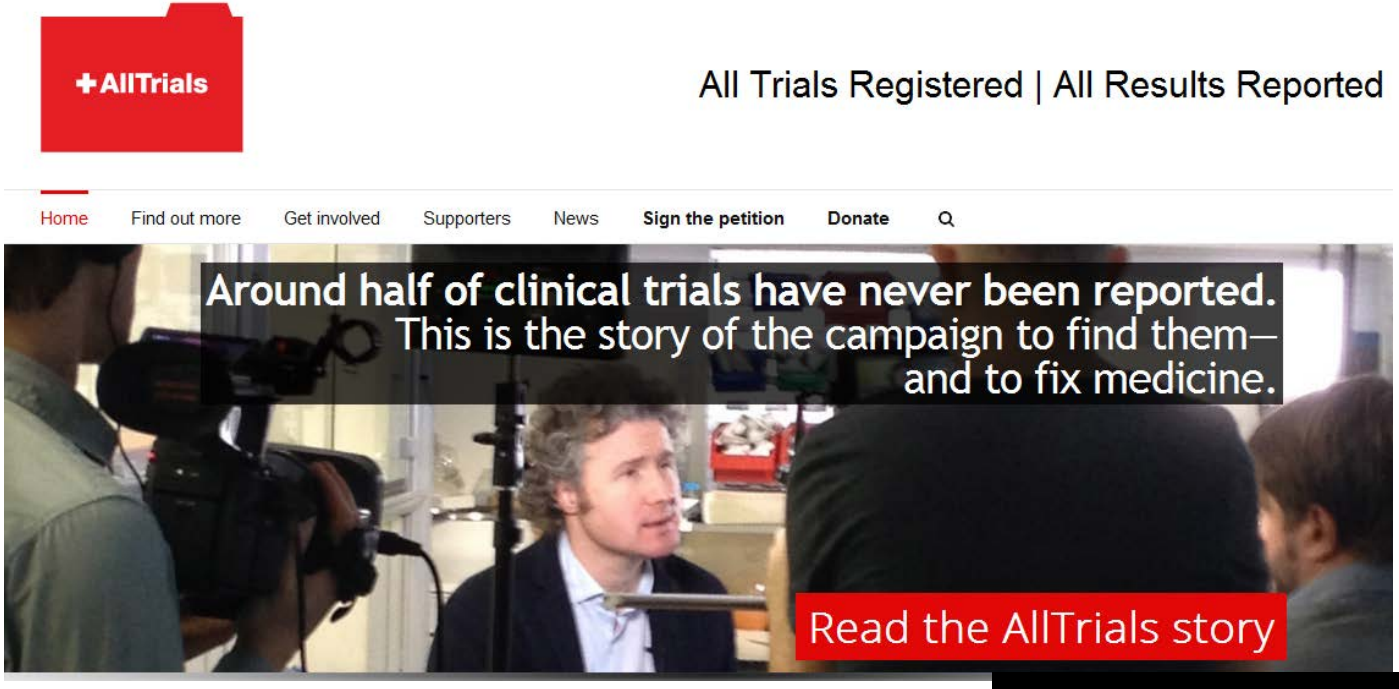
The ICMJE defines a clinical trial as any research project that prospectively assigns people or a group of people to an intervention, with or without concurrent comparison or control groups, to study the cause-and-effect relationship between a health-related intervention and a health outcome. Further details may be found in the *Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals* at www.icmje.org.

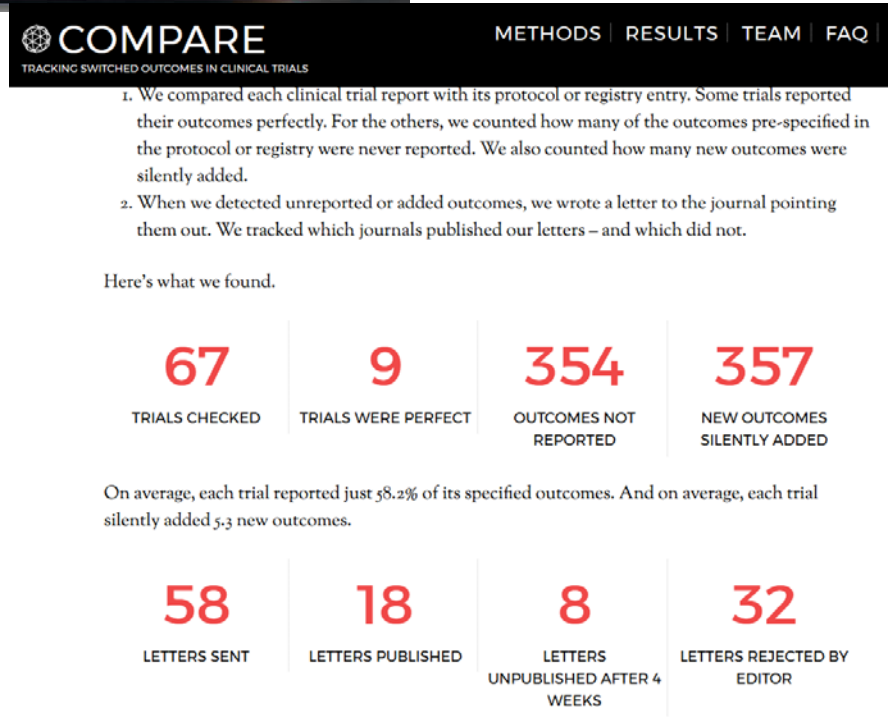
The ICMJE **proposes to require authors to share with others the de-identified individual-patient data** (IPD) **underlying the results** presented in the article no later than 6 months after publication.

Sharing clinical trial data, including de-identified IPD, requires planning to ensure appropriate ethics committee or institutional review board approval and the informed consent of study participants.



The AMA strongly supports improving the timeliness and accessibility of clinical trial data to reduce the duplication of research and help inform future research—ultimately improving health outcomes for patients," said AMA President Steven. J. Stack. "The AMA is pleased to join the AllTrials initiative to continue efforts aimed at ensuring open access to clinical trial data for physicians, researchers and patients.





http://compare-trials.org/

Compare **Tracking switched outcomes in clinical trials [Seguiment dels resultats en els assajos clinics]**

ICMJE INTERNATIONAL COMMITTEE of MEDICAL JOURNAL EDITORS

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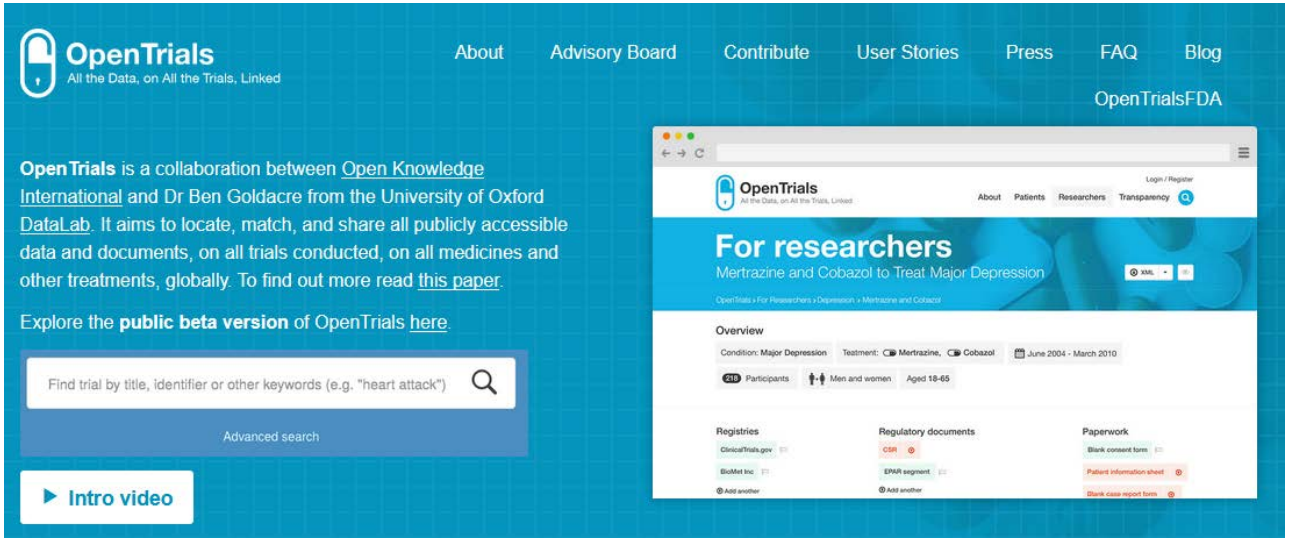
Clinical Trial Registration

The ICMJE's clinical trial registration policy is detailed in a series of editorials (see Updates and Editorials and FAQs).

Briefly, the ICMJE requires, and recommends that all medical journal editors require, registration of clinical trials in a public trials registry at or before the time of first patient enrollment as a condition of consideration for publication. Editors requesting inclusion of their journal on the ICMJE website list of publications that follow ICMJE guidance should recognize that the listing implies enforcement by the journal of ICMJE's trial registration policy.

The ICMJE defines a clinical trial as any research project that prospectively assigns people or a group of people to an intervention, with or without concurrent comparison or control groups, to study the cause-and-effect relationship between a health-related intervention *and* a health outcome. Health-related interventions are those used to modify a biomedical or health-related outcome; examples include drugs, surgical procedures, devices, behavioural treatments, educational programs, dietary interventions, quality improvement interventions, and process-of-care changes. Health outcomes are any biomedical or health-related measures obtained in patients or participants, including pharmacokinetic measures and adverse events. The ICMJE does not define the timing of first patient enrollment, but best practice dictates registration by the time of first patient consent.



https://opentrials.net/

Joint statement on public disclosure of results from clinical trials

Signatories on 18 May 2017

Indian Council of Medical Research

Research Council of Norway

UK Medical Research Council

Médecins Sans Frontières

Epicentre

CEPI

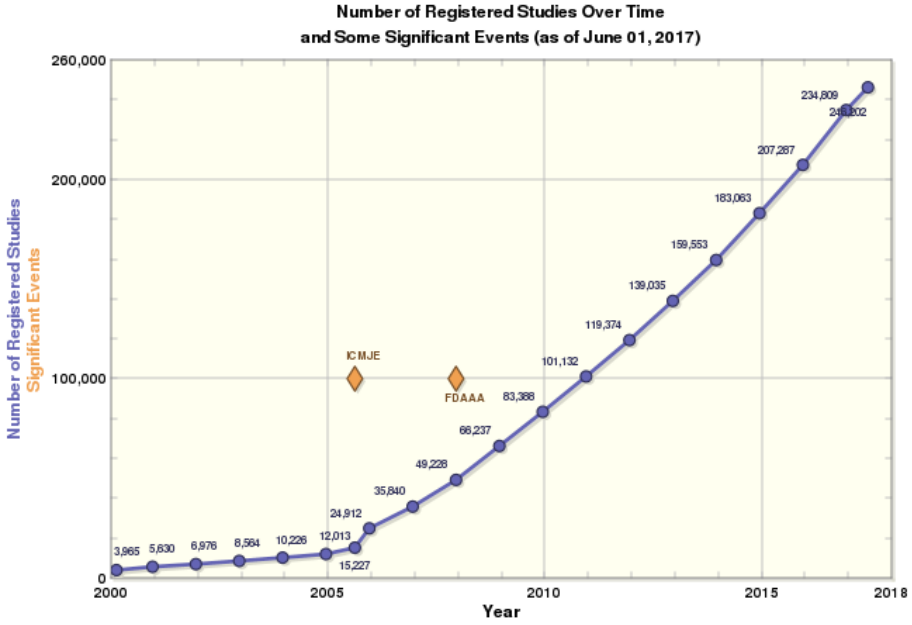
PATH

Institut Pasteur

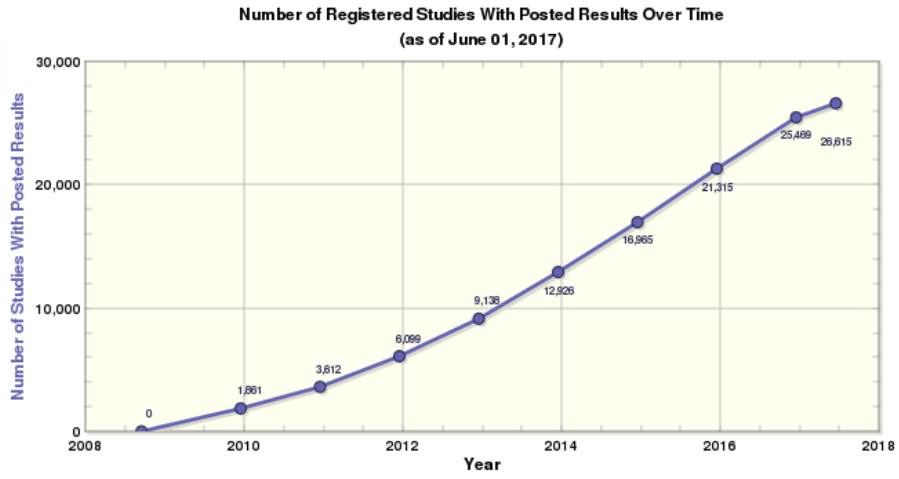
Bill and Melinda Gates Foundation

Wellcome Trust

The signatories of this joint statement affirm that the prospective registration and timely public disclosure of results from all clinical trials is of critical scientific and ethical importance. Furthermore ***timely results disclosure reduces waste in research, increases value and efficiency in use of funds and reduces reporting bias, which should lead to better decision-making in health.***



Source: https://ClinicalTrials.gov

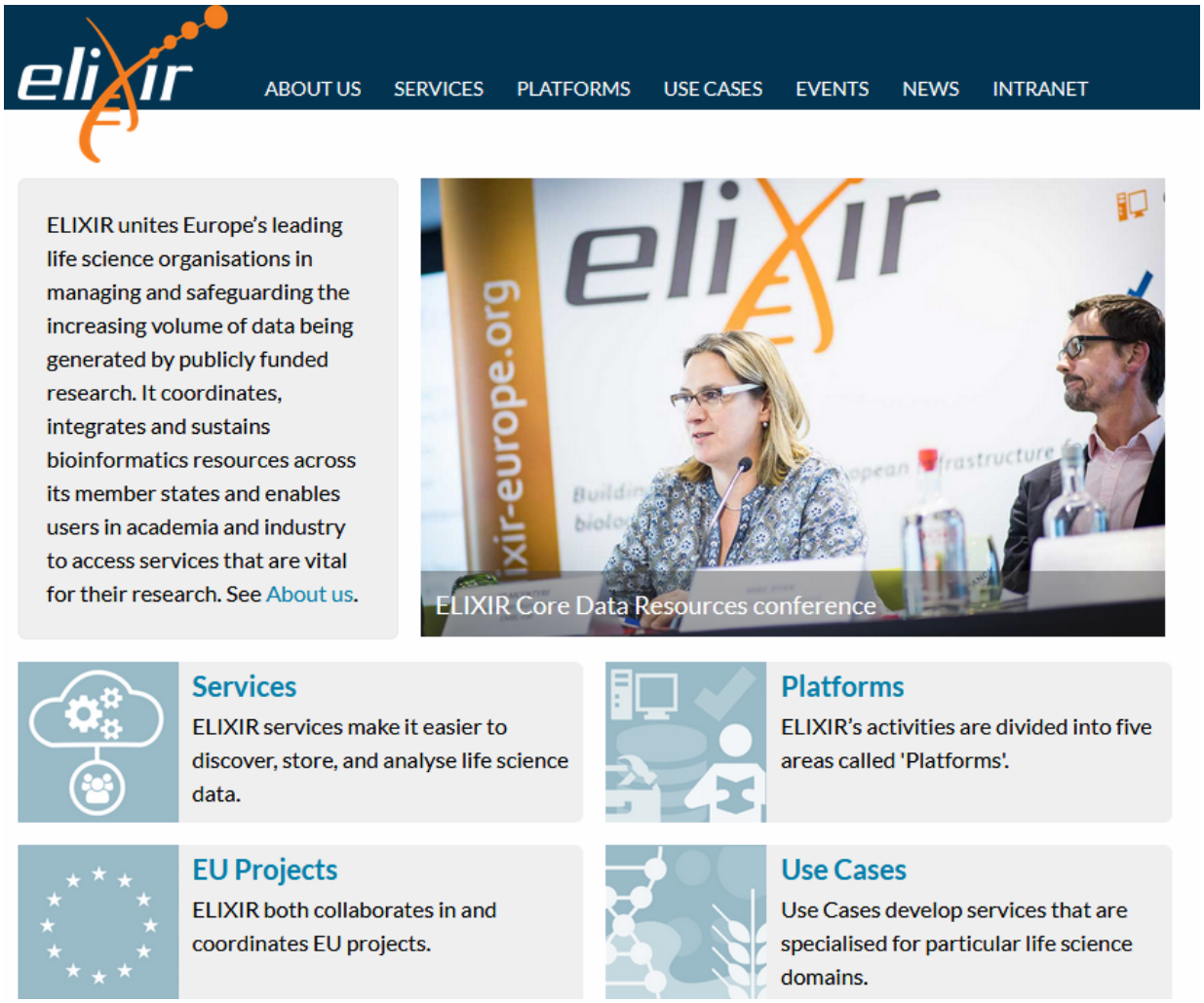


Source: https://ClinicalTrials.gov

https://clinicaltrials.gov/ct2/resources/trends

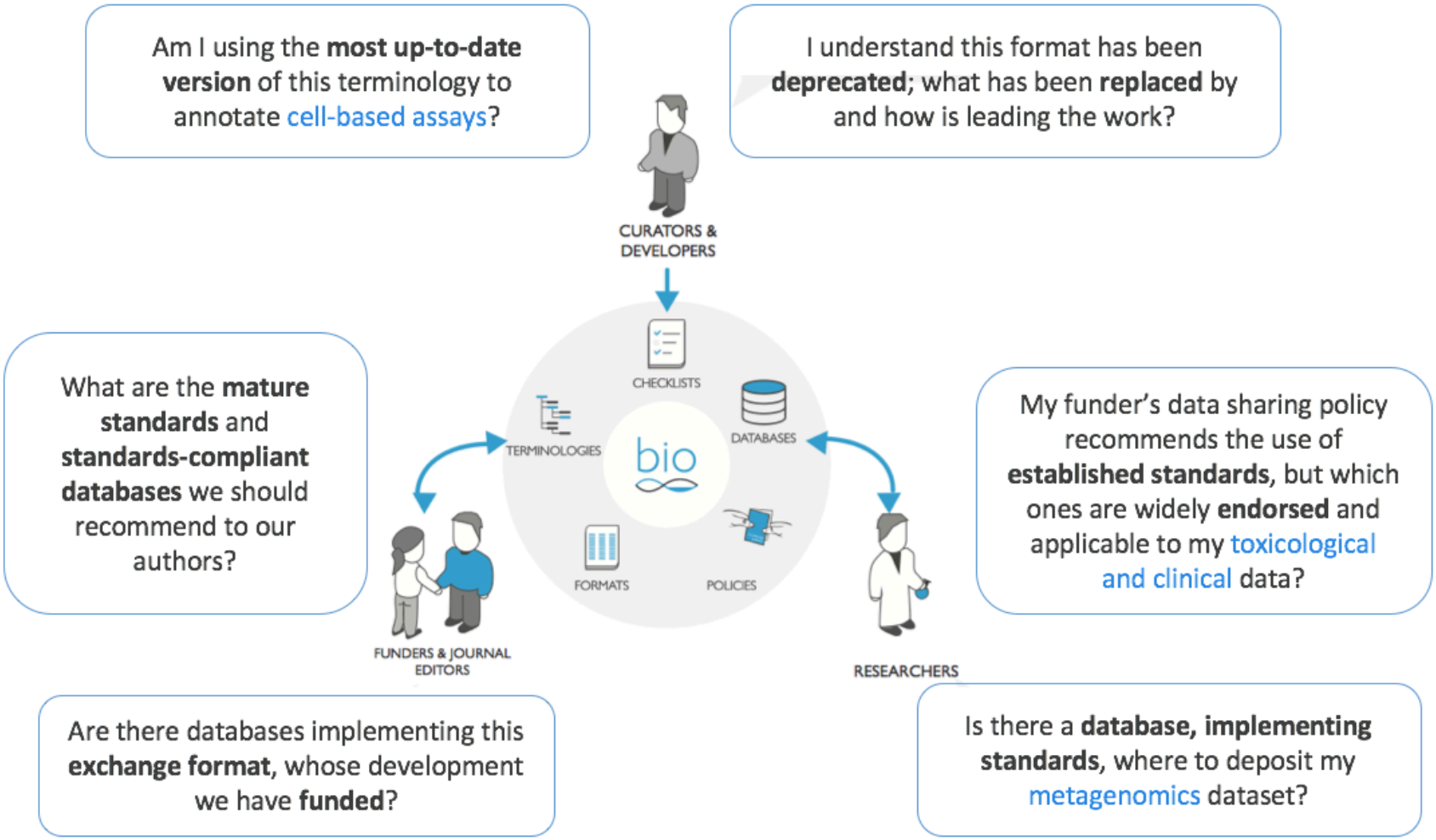
Altres projectes……..

https://biosharing.org/
http://www.elixir-uk.org/
https://www.elixir-europe.org/

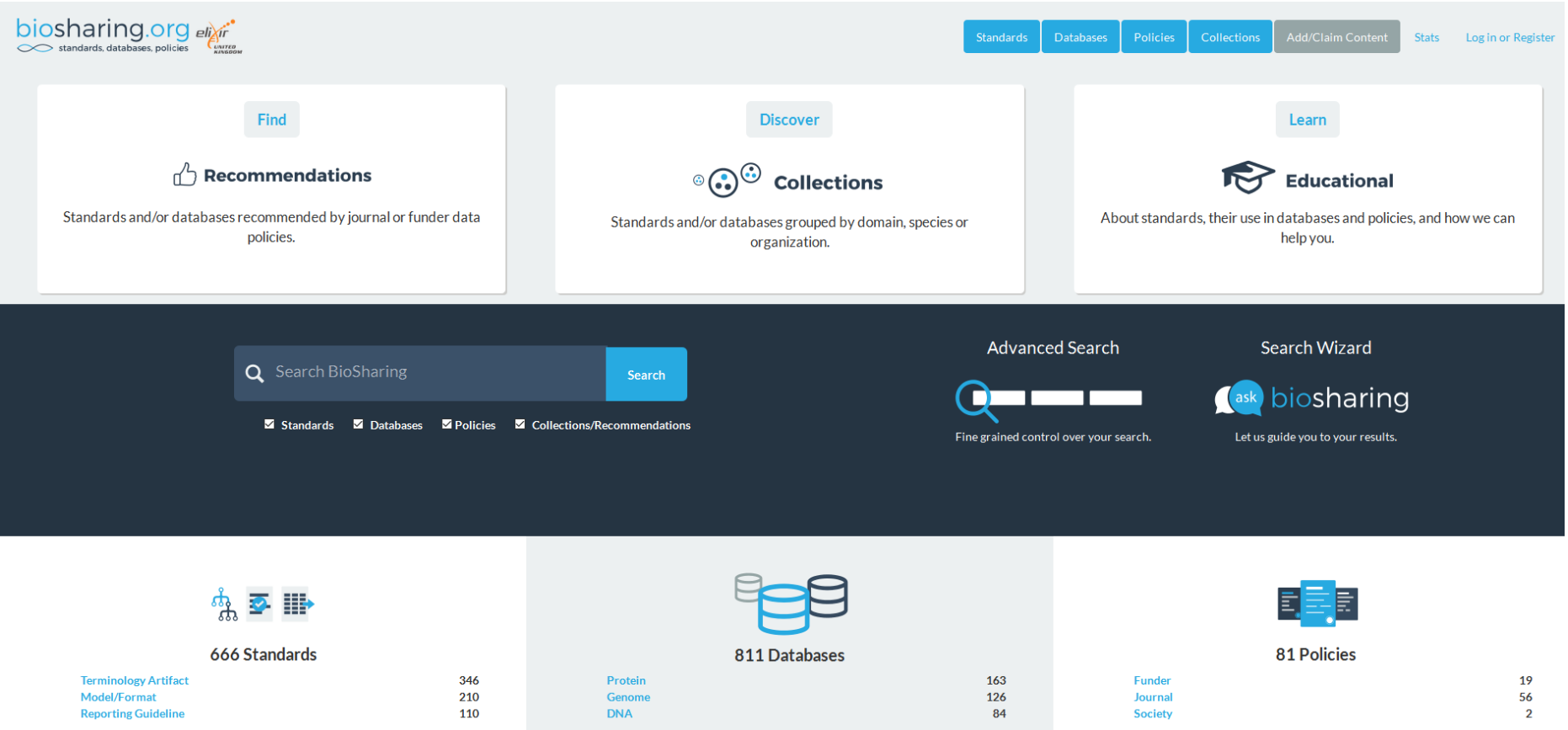


Services:
BioSharing for community standards.
bio.tools for life science tools and data services.
TeSS for life science training courses and materials.

https://biosharing.org/educational/#



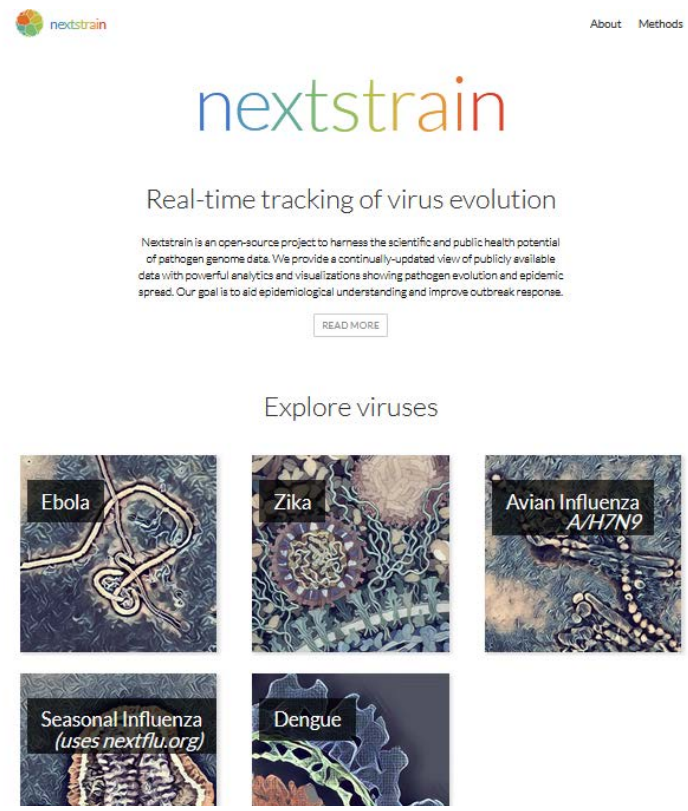
https://biosharing.org/

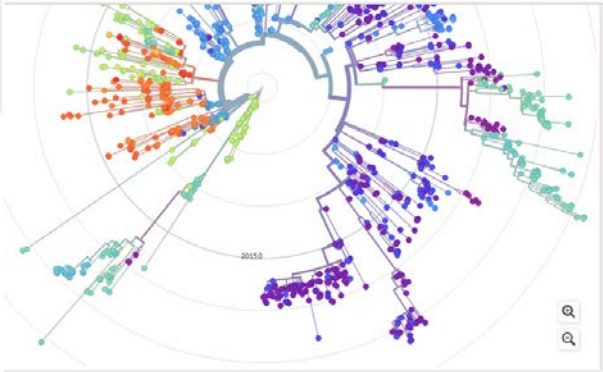


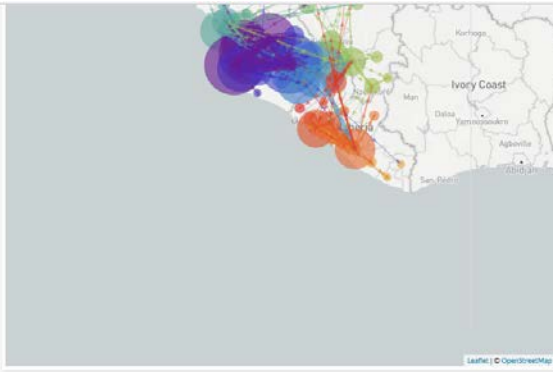
Recursos sobre estándares, repositorios de datos, y recursos de formación en ciencias de la vida, medio ambiente y ciencias biomédicas

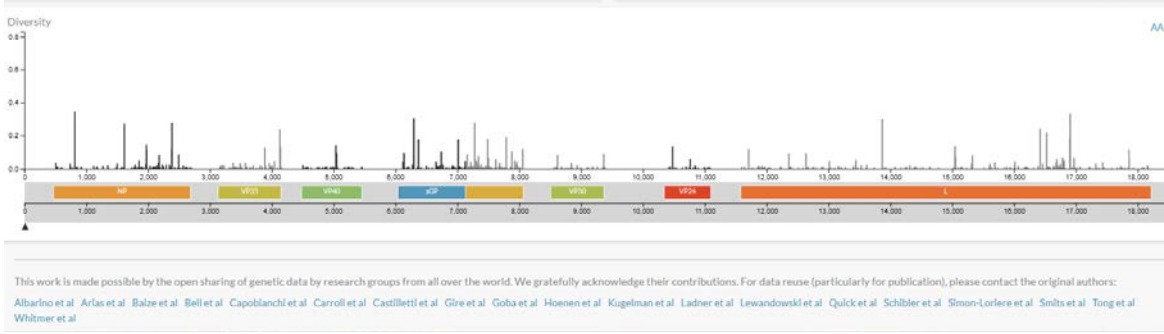
http://www.nextstrain.org/

Ciència "colaborativa"









The Open Science Prize

Unique Insights From Shared Data

28th February 2017: nextstrain.org wins Open Science Prize!

Congratulations to Trevor Bedford, Richard Neher and their team, who win the grand prize of $230,000. The Open Science Prize is a collaboration between the Wellcome Trust, the US National Institutes of Health (NIH) and the Howard Hughes Medical Institute to unleash the power of open content and data to advance biomedical research and its application for health benefit.

The winners

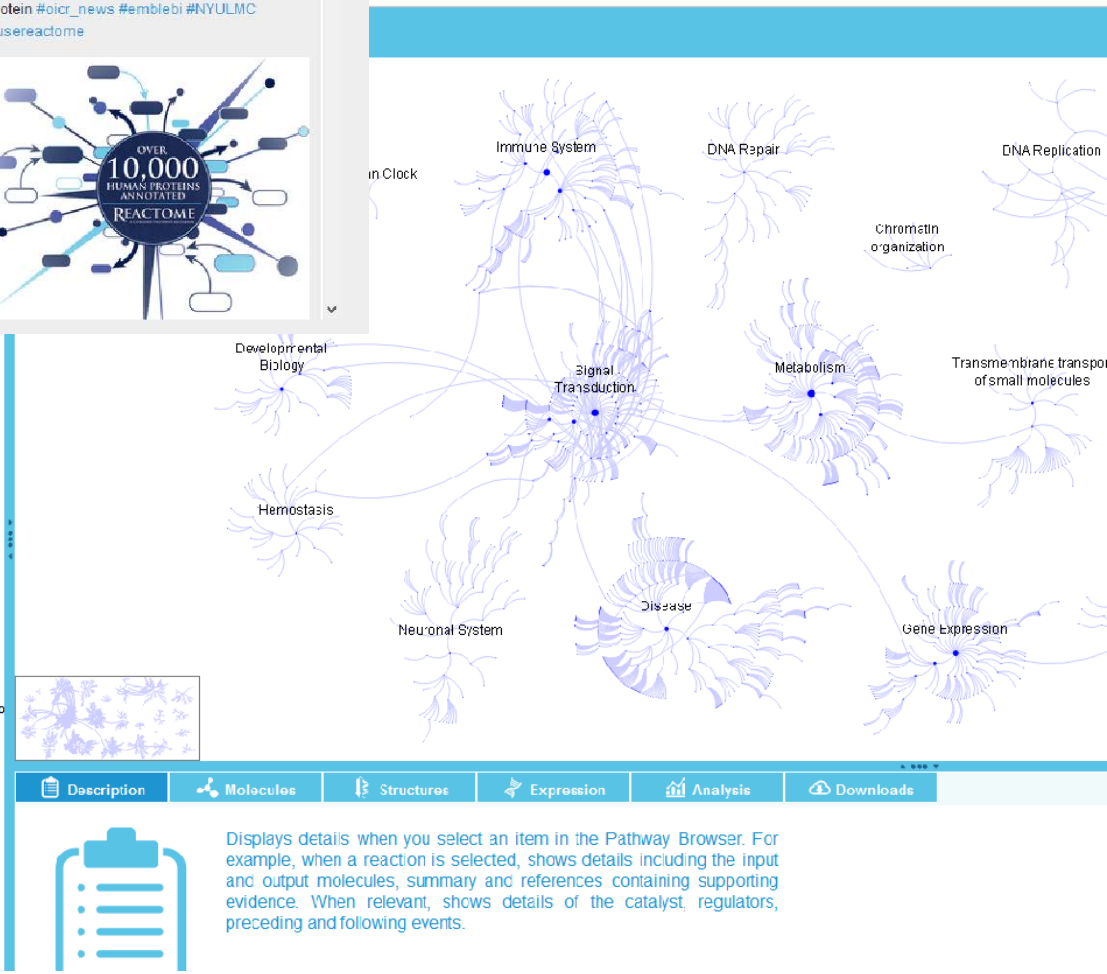
Real-Time Evolutionary Tracking for Pathogen Surveillance and Epidemiological Investigation

Try out the prototype: nextstrain.org

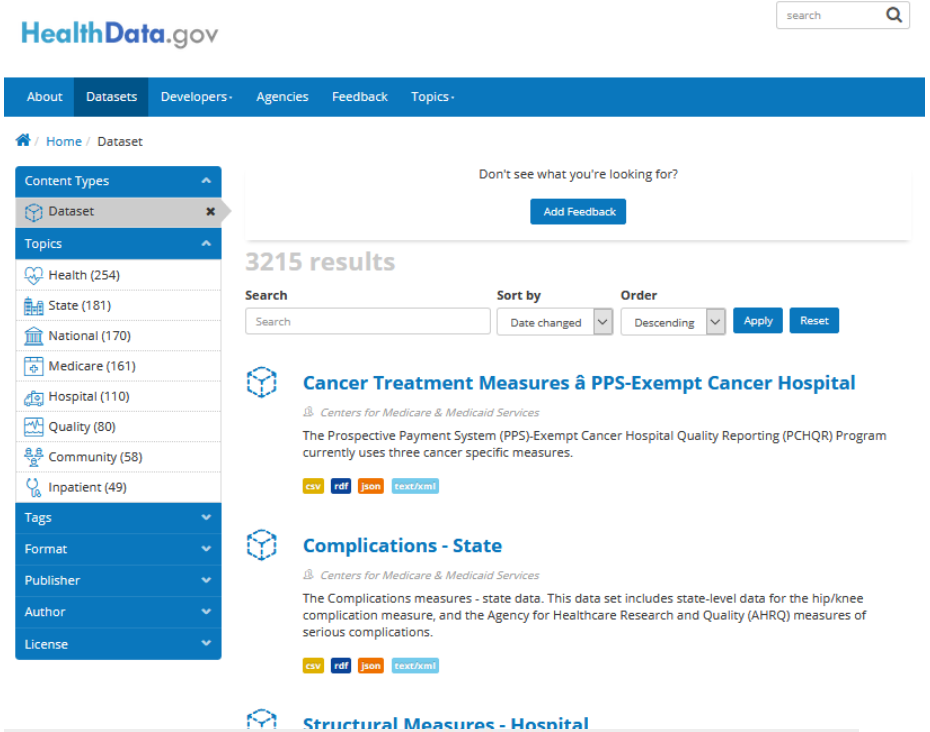
The goal of this project is to promote open sharing of viral genomic data and harness this data to make epidemiologically actionable inferences. The team will develop an integrated framework for real-time molecular epidemiology and evolutionary analysis of emerging epidemics, such as Ebola virus, MERS-CoV and Zika virus. The project will use an online visualization platform where the outputs of statistical analyses can be used by public health officials for epidemiological insights within days of samples being taken from patients.

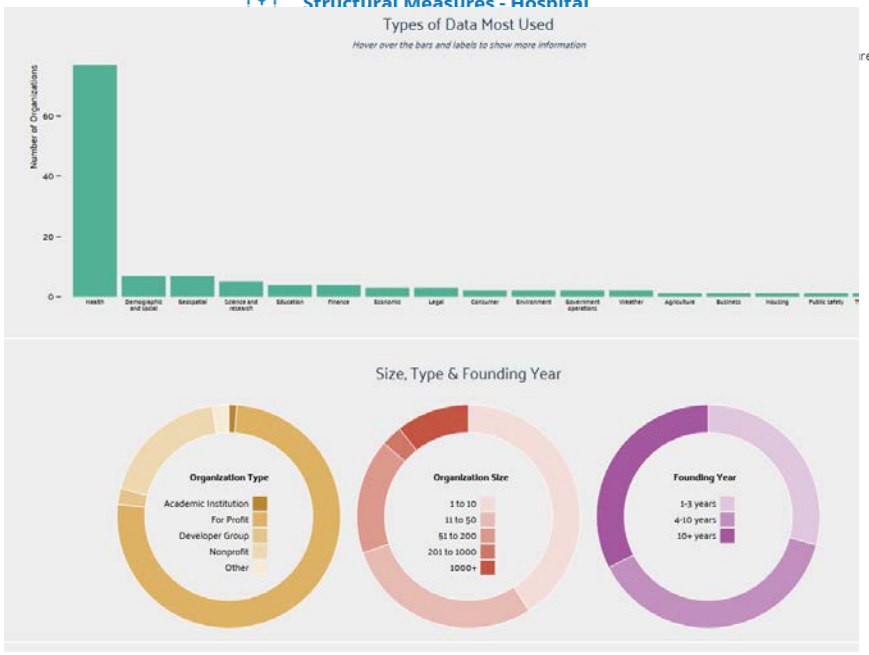
http://www.reactome.org/

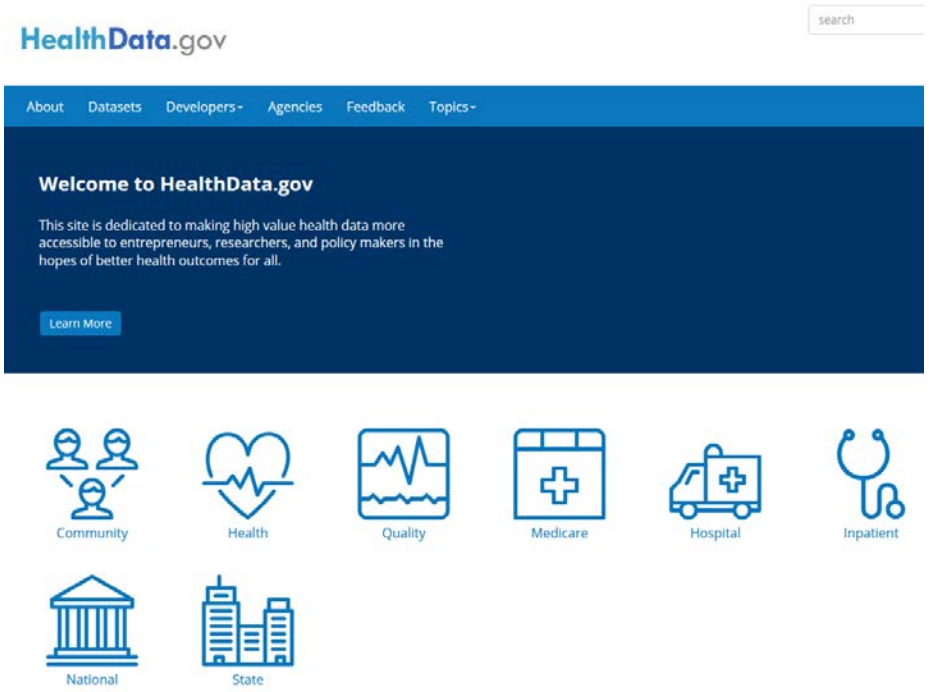
Eines per la visualització, de estructures, analisi..



https://www.healthdata.gov/







Ús dels open data (gov)
Cas d'estudi: health

http://www.opendataimpactmap.org/health.html#visualizations

Ciència ciutadana

CORDIS
Community Research and Development Information Service

European Commission > CORDIS > News and Events > ORION, a new European initiative to open up science to society

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ORION, a new European initiative to open up science to society

Contributed by: **Centre for Genomic Regulation (CRG)**

ORION is a new collaborative European project to explore ways in which research and funding organizations in life sciences and biomedicine can open up the way they fund, organize and do research. The Centre for Genomic Regulation in Barcelona, Spain, coordinates this project and is one of the nine partners in the project. ORION kicks off in Barcelona this week.

Open science is a core strategy of the European Commission that involves widening participation and collaboration as well as sharing research processes and outcomes to improve research and innovation. All European Union members recognise the benefits of open science, but the transition to "openness" is challenging.

Interesting challenges

The ORION project will help research and funding organizations to understand existing challenges in Open Science and implement institutional, cultural, and behavioral changes in how they carry out and manage research.

CRG Centre for Genomic Regulation

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- 2012 (48)
- 2011 (55)
- 2010 (40)
- 2009 (21)
- 2008 (18)

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NEWS

09 May

Tue, 09/05/2017 - 12:30

CRG coordinates ORION, a new European initiative to open up research to society

ORION open science

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Open science is a core strategy of the European Commission that involves widening participation and collaboration as well as sharing research processes and outcomes to improve research and innovation. All European Union members recognise the benefits of open science, but the transition to "openness" is challenging.

http://www.crg.eu/en/news/crg-coordinates-orion-new-european-initiative-open-research-society

AS OPEN AS POSSIBLE, AS CLOSED AS NECESSARY

Grantees have the right to **opt-out**, but need to say **why**

Top three reasons for **opt-out**:

privacy

intellectual property rights

might jeopardise project's main objective

The approach has been tested during a Horizon 2020 pilot action

2015

of 431 signed projects

opted to share data

from 2017

the current Open Research Data Pilot expands to cover all areas of Horizon 2020, with the same rules

Horizon 2020 already mandates open access to **all scientific publications**

From 2017,
research data is
open by default,
with possibilities to **opt out**

https://ec.europa.eu/research/press/2016/pdf/opendata-infographic_072016.pdf

RESEARCH DATA – OPEN BY DEFAULT

HORIZON 2020 GRANTEES ARE REQUIRED

take measures to ensure open access to the **data underlying their scientific publications**

provide open access to **any other research data of their choice**

Horizon 2020 grantees are **encouraged to also share datasets** beyond publication

PROJECTS MUST HAVE

DATA MANAGEMENT PLAN (DMP)

Provides information on:

- the data the research will generate
- how to ensure its curation, preservation and sustainability
- what parts of that data will be open (and how)

Data management costs are fully eligible for funding

No repository imposed: deposit data where you want

REGLAMENTO (UE) 2016/679 DEL PARLAMENTO EUROPEO Y DEL CONSEJO
de 27 de abril de 2016 relativo a la protección de las personas físicas en lo que respecta al tratamiento de datos personales y a la libre circulación de estos datos y por el que se deroga la Directiva 95/46/CE (Reglamento general de protección de datos)
Entra en vigor en mayo del 2018
http://eur-lex.europa.eu/legal-content/ES/TXT/HTML/?uri=CELEX:32016R0679&from=ES

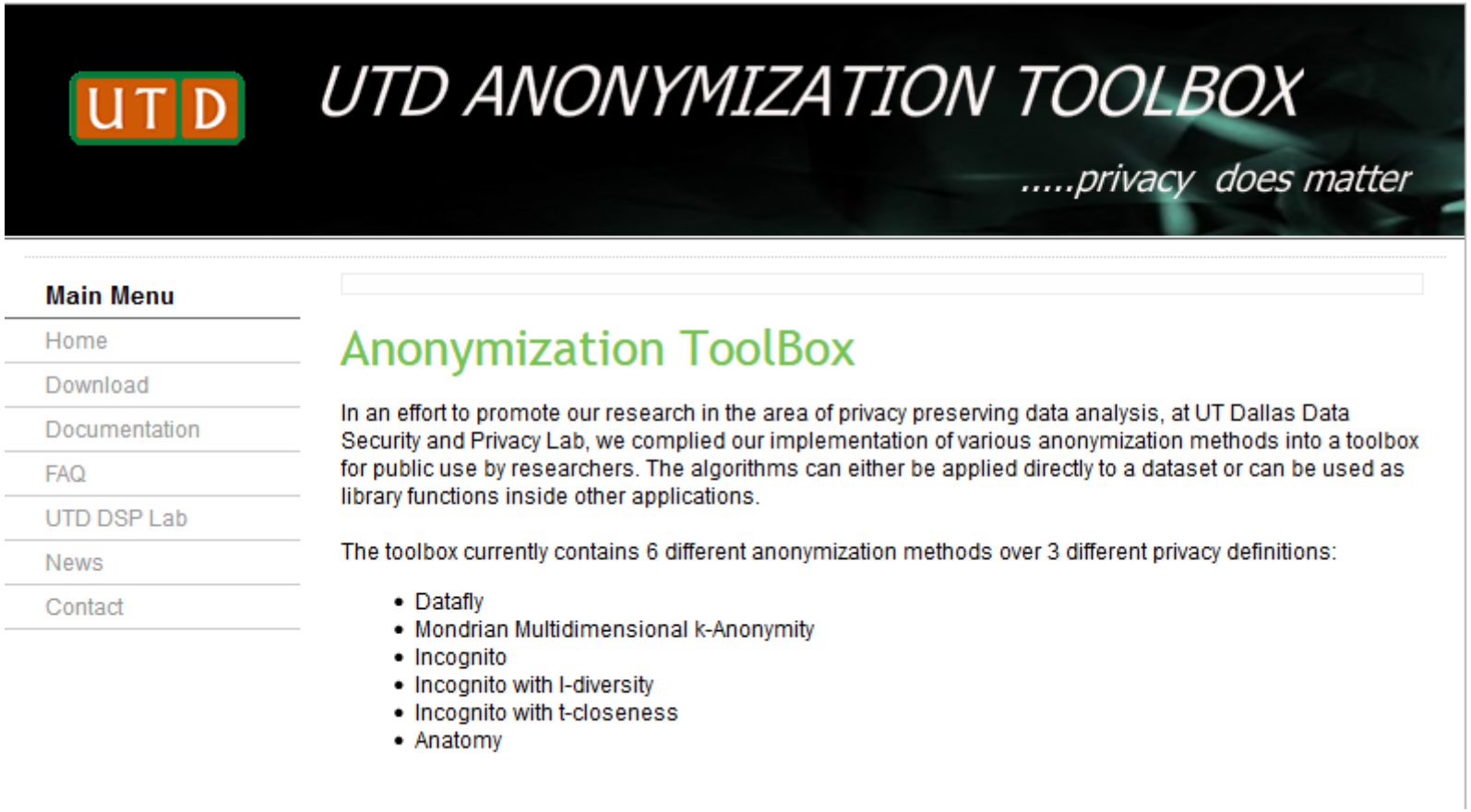
- Dret a la protecció de les pròpies dades
- Consentiment per al seu tractament
- Anonimització (suficient?)

Artículo 5 (Punto 1 letra a) Principios relativos al tratamiento

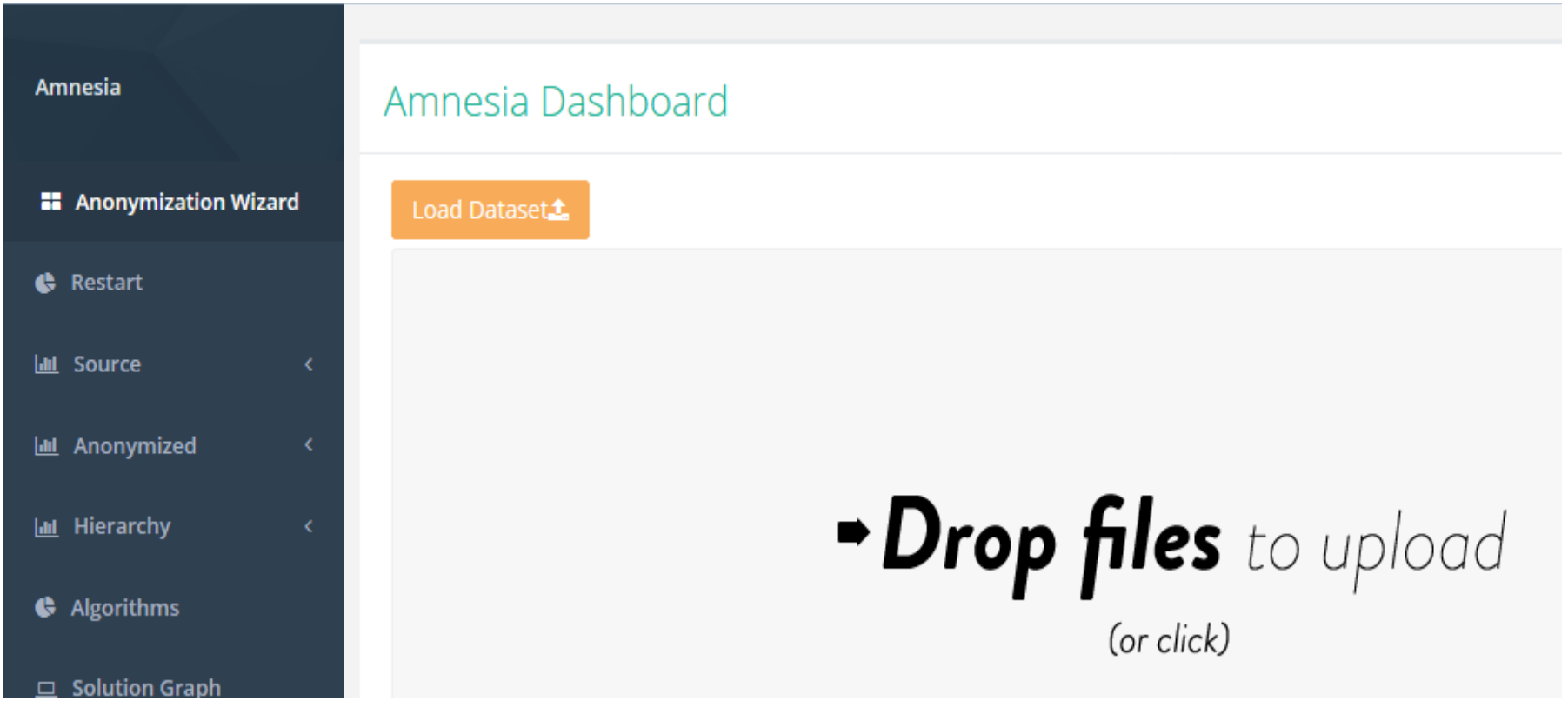
1. Los datos personales serán:

a) **tratados de manera lícita, leal y transparente en relación con el interesado («licitud, lealtad y transparencia»);**

http://www.cs.utdallas.edu/dspl/cgi-bin/toolbox/index.php



http://amnesia.imis.athena-innovation.gr:8080/amnesia/



Continuen….

23 Cosas: Bibliotecas para los Datos de Investigación

Recursos prácticos y herramientas online libres, que puedes usar ya, para incorporar la Gestión de Datos de Investigación a tu práctica bibliotecaria

Compartir datos de investigación sin barreras

Recursos de aprendizaje

Los bibliotecarios buscan y aprenden cómo aplicar los principios de la Biblioteconomía para dar nuevos servicios y solucionar problemas relacionados con los datos de investigación.

1. Las 10 recomendaciones más importantes de LIBER para empezar con la gestión de datos de investigación en bibliotecas, http://bit.ly/RDAthing1
2. El tesauro *e-Science* presenta y mapea los conceptos más relevantes, http://bit.ly/RDAthing2
3. Entiende el ciclo de vida de los datos de investigación gracias al Modelo de custodia del Ciclo de vida del DCC, http://bit.ly/RDAthing3
4. MANTRA. Módulos de Formación en línea para gestores de datos de investigación, http://bit.ly/RDAthing4
5. Lee la bibliografía más actualizada http://bit.ly/RDAthing5
6. Ejemplos de guías de recursos creados por bibliotecarios, para saber más sobre gestión de datos en: *SpringShare LibGuide Community Site*, http://bit.ly/RDAthing6

Recursos de aprendizaje
Datos de referencia y divulgación
Planes de Gestión de Datos
Alfabetización en datos
Cómo citar datos
Metadatos
Licencias y Privacidad de los datos
Preservación Digital
Repositorios de datos
y una Comunidad de práctica...

...para ayudar a los bibliotecarios a involucrarse en la gestión de datos de investigación

Datos de Referencia y divulgación

Los bibliotecarios responden preguntas sobre datos, y realizan actividades de difusión para conocer las necesidades de investigadores y estudiantes en relación a los datos.

7. Comienza una conversación con un investigador sobre datos: **Realiza entrevistas sobre datos de investigación** http://bit.ly/RDAthing7
8. Aprende más sobre las necesidades de los investigadores, leyendo o creando un perfil nuevo **Perfiles de Custodia/gestión de datos (por disciplinas),** http://bit.ly/RDAthing8
9. Crea materiales atractivos para ayudar a tus bibliotecarios, p. ej. **Kit de Difusión para bibliotecarios (DataOne),** http://bit.ly/RDAthing9
10. Preguntas sobre datos contestadas por expertos en el foro DataQ, http://bit.ly/RDAthing10

Planes de Gestión de Datos

Los bibliotecarios están al tanto de los requisitos de las instituciones que financian la investigación y se reúnen con los investigadores para ayudarles a redactar e implementar planes de gestión de datos eficaces.

11. Herramientas que se adaptan a los requisitos de las agencias de financiación y permiten crear un plan, a partir de preguntas dirigidas a los investigadores: **DMPTool (USA)** http://bit.ly/RDAthing11 **PGDOnline (Spain)** http://bit.ly/PGDOnline

Alfabetización en Datos

Los bibliotecarios incluyen, cada vez más, en sus actividades de alfabetización informacional, la formación en datos, de tal forma que los usuarios reconozcan cuándo necesitan datos y sean capaces de localizarlos, evaluarlos y utilizarlos.

12. En el Proyecto (y en el libro) *Data Information Literacy* se desarrolla un currículo para ayudar a los bibliotecarios y profesores a incorporar los datos, en la divulgación y en los cursos de alfabetización informacional, http://bit.ly/RDAthing12

Metadatos

Los bibliotecarios ayudan a organizar, clasificar y describir datos de investigación, y desarrollan estándares de metadatos para hacer que los datos sean más fáciles de localizar, entender y preservar.

13. Utilizando el **Directorio de Estándares de Metadatos,** podrás decidir qué modelo de metadatos normalizado es más apropiado, para recomendarlo o aplicarlo, http://bit.ly/RDAthing13

Cómo citar datos

Los bibliotecarios ayudan a promover el reconocimiento académico de los datos: impulsando y facilitando que sean citables, asignando identificadores a los conjuntos de datos, creando enlaces entre datos y documentos y ayudando a que los usuarios den el reconocimiento apropiado a los productores de datos.

14. DataCite tiene diferentes recursos para ayudar a que los investigadores hagan sus datos citables, y se les reconozca, y para que se empiece a medir el impacto a partir de la asignación de DOIs a los conjuntos de datos *(datasets)* http://bit.ly/RDAthing14

Licencias y Privacidad de los datos

Los bibliotecarios ayudan a los investigadores a compartir sus datos utilizando las licencias apropiadas, al mismo tiempo que protegen la confidencialidad de la información de las personas, o cualquier otro dato sensible.

15. **Cómo atribuir Licencias a los Datos de Investigación** del *Digital Curation Centre* puede servir para que los bibliotecarios ayuden a los investigadores a elegir la licencia adecuada para los datos que comparten, http://bit.ly/RDAthing15
16. El JISC gestiona la lista de correo **DATA-PROTECTION** donde se discuten aspectos relacionados con datos sensibles, http://bit.ly/RDAthing16

Preservación Digital

Los bibliotecarios están trabajando con la comunidad archivística para desarrollar e implementar la infraestructura y las prácticas que aseguren que las colecciones de datos son accesibles y utilizables en 5, 20, 50, 100 años, o más.

17. Entender vocabularios y estándares para archivos digitales, utilizando el modelo de referencia OAIS *(Open Archival Information System)* y certificaciones de repositorios digitales reconocidas como la ISO 16363 y el *Data Seal of Approval*
18. Puedes encontrar herramientas que te ayudarán en la preservación digital en: COPTR, http://bit.ly/RDAthing18

Repositorios de datos

Muchas bibliotecas proporcionan a sus usuarios repositorios para publicar y archivar *datasets,* o para ayudar a los investigadores a identificar otros repositorios (por criterios como: fuente de financiación, disciplina u otros dominios).

19. Encuentra el repositorio adecuado buscando en el Registro de Repositorios de Datos de Investigación re3data.org http://bit.ly/RDAthing19
20. Publica y comparte datos utilizando repositorios de datos gratuitos como: Figshare, Zenodo, Open Science Framework o DataVerse

Comunidades de práctica

Los bibliotecarios se están conectando entre ellos, y también con una comunidad más amplia de investigadores, tecnólogos, instituciones de financiación, editores, etc. para desarrollar soluciones y compartir buenas prácticas de gestión de datos de investigación

21. Un ejemplo de enfoque distribuido para la creación de comunidades de gestión de datos de investigación a nivel federal, es el ***Australian National Data Service,*** http://bit.ly/RDAthing21
22. Algunas conferencias que tratan sobre datos de investigación e implican a los bibliotecarios son: *International Digital Curation Conference* (IDCC), *Research Data Access & Preservation Summit* (RDAP), *International Association for Social Science and Information Services & Technology* (IASSIST), y *Research Data Alliance* (RDA)
23. Únete a la *Research Data Alliance!*

    Pertenecer a una comunidad internacional que construye puentes sociales y técnicos para el intercambio de datos. Te puedes unir gratuitamente visitando el sitio web, y luego, suscríbete al Grupo de Interés sobre ***Bibliotecas para Datos de Investigación,*** http://bit.ly/RDAthing23

Información de Contacto

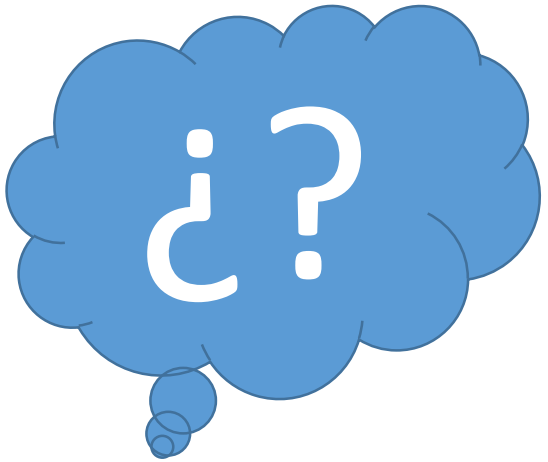
Michael Witt, Purdue University

Co-chair del Grupo de Interés sobre Bibliotecas para Datos de Investigación de la RDA

Traducido por: Eva Méndez, Universidad Carlos III de Madrid. Spain. RDA/Europe

Compartiendo datos de investigación sin barreras
www.rd-alliance.org
RDA
June 2016

https://www.rd-alliance.org/sites/default/files/23Things_Libraries_For_Research_Data_es.pdf



Gràcies!

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